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FIGURE 517

GGCACGAGCAGGCCCTGGCCGTGGCGAAAGAGCCGGCGGAGCCGGAGACCCGCTCCCGGAGACGCCGCCTCGCGA
TCCCCGCGCGGGCGGGACCGGGCGGCCGGCATCATGACCCTGTTTCACTTCGGGAAGTGCCTTCGCTCTTGCTTAC
TTCCCCTACTTCATCACCTACAAGTGCACCGACCTATCCGAGTACAACGCCTTCTGGAAATGCGTCCAGGCTGGA
GTCACCTACCTCTTTGTCCAACCTCTGCAAGATGCTGTTCTTGGCCACTTTCTTTCCACCTGGGAAGGCGGCATC
TATGACTTCATTGGGGAGTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCC
CGGAATGCCGGCAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCC
CGCTGCATTCCTTATGGGTCGGAGCCCGGGGCATTGAGTTTGACTGGAAGTACATCCAGATGAGCATAGACTCC
AACATCAGTCTGGGTCCATACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACC
TTCCGGCCAGCTGTCCTCCTGCTGATGTTCTCAGAGTTTACAAGGCCTTTGTTATGGAGACGTTTGTCCACCTA
TGCTCGCTGGGCAGTTGGGCAGTTTTAATGGCGGGAGTAGTGGTTAAGGGGCTGCTGGTTATCAGAAATTTGGCC
ATGTATGTTGCCGTTGTCAATGTGCACTCCTAGGCTTGGTGTCTCAGACATTGATGTACCTTTTCCCTGCCTCGC
TCCAGGTTTTAGTGAAGTAAACAGTATTTGGAAAGTT

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FIGURE 518

MTLFHFGNCFALAYFPYFITYKCTDLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLGPIYIVAS
AQVWMITRYDLYHTFRPAVLLLMFLRVYKAFVMETFVHLCSLGSWAVLMAGVVVKGLLVIRNLAMYVAVVNVHS

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FIGURE 519

CGTATTGCTCGGCCCGGGGAGTTTCGCCCCCTGCCCGGCTCCGCGGCGCGGAGG**ATGG**CGTGGAACGGCTGGGC
GCGCTGGTGATGTTCCCTCTACAGATGATCTATCTGGTGGTGAAAGCAGCCGTCGGACTGGTGCTGCCCGCCAAG
CTGCGGGACCTGTCGCGGGAGAACGTCTCATCACCGGCGGCGGGAGAGGCATCGGGCGCTCAGCTCGCCCGCGAG
TTCGCGGAGCGCGGCGCCAGAAAGATTGTTCTCTGGGGCCGGACTGAGAAATGCCTGAAGGAGACGACGGAGGAG
ATCCGGCAGATGGGCACTGAGTGCCATTACTTCATCTGTGATGTGGGCAACCGGGAGGAGGTGTACCAGACGGCC
AAGGCCGTCCGGGAGAAGGTGGGTGACATCACCATCCTGGTGAACAATGCCGCCGTGGTCCATGGGAAGAGCCTA
ATGGACAGTGATGATGATGCCCTCCTCAAGTCCCAACACATCAACACCCTGGGCCAGTTCTGGACCACCAAGGCC
TTCCTGCCGCGTATGCTGGAGCTGCAGAATGGCCACATCGTGTGCCTCAACTCCGTGCTGGCACTGTCTGCCATC
CCCGGTGCCATCGACTACTGCACATCCAAAGCGTCAGCCTTCGCCTTCATGGAGAGCCTGACCCTGGGGCTGCTG
GACTGTCCGGGAGTCAGCGCCACCACAGTGCTGCCCTTCCACACCAGCACCGAGATGTTCCAGGGCATGAGAGTC
AGGTTTCCCAACCTCTTTCCCCCACTGAAGCCGGAGACGGTGGCCCGGAGGACAGTGGAAGCTGTGCAGCTCAAC
CAGGCCCTCCTCCTCCTCCCATGGACAATGCATGCCCTCGTTATCTTGAAAAGCATACTTCCACAGGCTGCACTC
GAGGAGATCCACAAATTCTCAGGAACCTACACCTGCATGAACACTTTCAAAGGGCGGACAT**TAG**AGACAGGATGAA
GACATGCTTGAGGAGCCACGGAGTTTGGGGGCCACAGCACCTGGGCACACACCCGAGCACCTGTCCATTGGCATG
CTTCTGCTGGGTGAGCAGGACAGCTCCTGTCCCCAGCGAAGAATCCGGCTGCCCCTGGGCCAGTCCCAGGACCTT
TGCACAGGACTGATGGGTGTAAGTGACCCCCACAGGGAGGCAGGAAAACAGCCAGAAGCCACCTTGACACTTTTG
AACATTTCCAGTTCTGTAGAGTTTATTGTCAATTGCTTCTCAAGTCTAACCAGCCTCAGCAGTGTGCATAGACCA
TTTCCAGGAGGGTCTGTCCCCAGATGCTCTGCCTCCCGTTCCAAAACCCACTCATCCTCAGCTTGCACAAACTGG
TTGAACGGCAGGAATGAAAAATAAGAGAGATGGCTTTTGTGAAAAAAAAA

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FIGURE 520

MAWKRLGALVMFPLQMIYLVVKAAGLVLPALRLDLSRENVLITGGGRGIGRQLAREFAERGARKIVLWGRTEKC
LKETTEEIRQMGTECHYFICDVGNREEVYQTAKAVREKVGDITILVNNAAVVHGKSLMDSDDDALLKSQHINTLG
QFWTTKAFLPRMLELQNGHIVCLNSVLALSAIPGAIDYCTSKASAFAMESLTLGLLDPCGVSATTVLPPFHTSTE
MFQGMVRVFPNLFPPPLKPETVARRTVEAVQLNQALLLPWTMHALVILKSILPQAAL EEIHKFSGTYTCMNTFKG
RT

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FIGURE 521A

GTGGGGTGGGGTGGGGCTGGGGGCTTGTGCGCCCTTTCAGGCTCCACCCTTTGCGGAGATTATAAAATAGTCATGAT
CCCAGCGAGACCCAGAGATGCCTGTAATGGTGAGACTTTGGATCCTTCCTGAGGACGTGGAGAAAACTTTCTGCT
GAGAAGGACATTTTGAAGGTTTTGTTGGCTGAAAAAGCTGTTTCTGGAATCACCCCTAGATCTTTCTTGAAGACT
TGAATTAGATTACAGCGATGGGGACACAGAAGGTCACCCAGCTCTGATATTTGCCATCACAGTTGCTACAATCG
GCTCTTTCCAATTTGGCTACAACACTGGGGTCATCAATGCTCCTGAGAAGATCATAAAGGAATTTATCAATAAAA
CTTTGACGGACAAGGGAAATGCCCCACCCTCTGAGGTGCTGCTCACGTCTCTCTGGTCCTTGTCTGTGGCCATAT
TTTCCGTCGGGGGTATGATCGGCTCCTTTTCCGTCGGACTCTTCGTCAACCGCTTTGGCAGGCGCAATTCATGC
TGATTGTCAACCTGTTGGCTGTCACTGGTGGCTGCTTTATGGGACTGTGTAAAGTAGCTAAGTCGGTTGAAATGC
TGATCCTGGGTCGCTTGGTTATTGGCCTCTTCTGCGGACTCTGCACAGGTTTTGTGCCCATGTACATTGGAGAGA
TCTCGCCTACTGCCCTGCGGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATCGTTGTTGGAATTTCTGGTGGCCC
AGATCTTTGGTCTGGAATTCATCCTTGGGTCTGAAGAGCTATGGCCGCTGCTACTGGGTTTTACCATCCTTCCTG
CTATCTACAAAGTGCAGCCCTTCCATTTTGGCCTGAAAGTCCCAGATTTTTGCTCATTAACAGAAAAGAAGAGG
AGAATGCTAAGCAGATCCTCCAGCGGTTGTGGGGCAGCCAGGATGTATCCCAAGACATCCAGGAGATGAAAGATG
AGAGTGCAAGGATGTCAACAAGAAAAGCAAGTCACCGTGCTAGAGCTCTTTAGAGTGTCCAGCTACCGACAGCCCA
TCATCATTTCCATTGTGCTCCAGCTCTCTCAGCAGCTCTCTGGGATCAATGCTGTGTTCTATTACTCAACAGGAA
TCTTCAAGGATGCAGGTGTTCAAGAGCCCATCTATGCCACCATCGGCGCGGGTGTGGTTAATACTATCTTCACTG
TAGTTTCTCTATTTCTGGTGGAAAGGGCAGGAAGAAGGACTCTGCATATGATAGGCCTTGGAGGGATGGCTTTTT
GTTCCACGCTCATGACTGTTTCTTTGTTATTAAAGGATAACTATAATGGGATGAGCTTTGTCTGTATTGGGGCTA
TCTTGGTCTTTGTAGCCTTCTTTGAAATTGGACCAGGCCCATTCCTGGTTTATTGTGGCCGAACCTCTTCAGCC
AGGGCCCCCGCCAGCTGCGATGGCAGTGGCCGGCTGCTCCAACCTGGACCTCCAACCTTCTAGTCGGATTGCTCT
TCCCCCTCCGCTGCTCACTATTTAGGAGCCTACGTTTTTATTATCTTCACGGCTTCTCATTACCTTCTTGGCTT
TTACCTTCTTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGAGGATATCACACGGGCCTTTGAAGGGCAGGCAC
ACGGTGCAGATAGATCTGGAAGGACGGCGTCATGGAGATGAACAGCATCGAGCCTGCTAAGGAGACCACCACCA
ATGTCTAAGTCTGCTCCTCCTTCCACCTCCCTCCCGGCATGGGAAAGCCACCTCTCCCTCAACAAGGGAGAGACCT
CATCAGGATGAACCCAGGACGCTTCTGAATGCTGCTACTTAATTCCTTTCTCATCCACGCACTCCATGAGCACC
CCAAGGCTGCGGTTTTGTTGGATCTTCAATGGCTTTTTTAAATTTTATTTCTGGACATCCTCTTCTGCTTAGGAGA
GACCGAGTGAACCTACCTTCATTTCAAGGAGGGATTGGCCGCTTGGCACATGACAACCTTTGCCAGCTTTTCTCC
TTGGTTCTGATATTGCCGCACTAGGGGATATAGGAGAGGAAAAGTAAGGTGCAGTTCCCCCAACCTCAGACTTA
CCAGGAAGCAGATACATATGAGTGTGGAAGCCGGAGGGTGTATGTAAGAGCACCTTCTCACTTCCATACAGC
TCTACGTGGCAAATTAACCTTGAGTTTTATTTATTTATCCTCTGGTTTAATTACATAATTTTTTTTTTTTACTT
TAAGTTTCAGGATACATGTGCCGAATGTGCAGGTTGTACATAGGTATATATATGCCATGATGGAAATATTTAT
TTTTTTAAGCGTAATTTTGCCAAATAATAAAACAGAAGGAAATTGAGATTAGAGGGAGGTGTTTAAAGAGAGGT
TATAGAGTAGAAGATTTGATGCTGGAGAGGTTAAGGTGCAATAAGAATTTAGGGAGAAATGTTGTTCAATTATTG
AGGGTAAATGATGTGGTGCCTGAGGTCTGTACGTTACCTCTTAACAATTTCTGTCTTCAGATGGAAACTCTTTA
ACTTCTCGTAAAAGTCATATACCTATATAATAAAGCTACTGATTTCTTGGAGCTTTTTTCTTTAAGATAATAGT
TTACATGTAGTAGTACTTGAAATCTAGGATTATTAATAATATGGGCATTGTAGTTAATGATGGTTGATGGGTTT
TAATTTTGGATGGAGTCCAGGGAAGAGAAAGTGATTTCTAGAAAGCCTGTTCCCTCACTGGATGAAATAACTCC
TTCTTGTAGTAGTCTCACTTTTGAAGTAATCCCGCCACCTATCTCGTGGGAGAGCCATCCAAATAAGAAACC
TAAAATAATTTGGTTCTTGGTAGAGATTCATTATTTTCCACTTTGTTCTTTAGGAGATTTTAGGTGTTGATTTTC
TGTTGTATTTTAACTCATACCTTTAAAGGAATCCCCAAAGAATGTTTATAGCAAACCTTGAATTTGTAACTCA
GCTCTGGGAGAGGATTTTTTCTGAGCGATTATTATCTAAAGTGTGTTGTTGCTTTAGGCTCACGGCACGCTTGC
GTATGTCTGTTACCAIGTCACTGTGGTCTATGCCGAATGCCCTCAGGGGACTTGAATCTTTCCAATAAACCAGG
TTTAGACAGTATGAGTCAATGTGCAGTGTAGCCACACTTGAGAGGATGAATGTATGTGCACTGTCACTTTGCTC
TGGGTGGAAGTACGTTATTGTTGACTTATTTTCTCTGTGTTGTTTCTACAGCCCCCTTTTTCATATGTTGCTCAG
TCTCCCCTTTCCCTTCTTGGTGTCTACACATCTCAGACCCCTTAGCCAAACCCTTGTGAGTGACAGTATTTTGGTT
CTTAGTTCTCACTGTTCCCTCTGCTCCTGGAGCCTTTGAATAAAAATGCACGTAGCTGAGGCCGGATGCGGTGGC
TCACGCCTGTAATCCAGCACTTTGGGAGGCCTAGGCGGGCGGTGAGGGGTCGAGACCAGTCTGGCCAACATCG
TGAAACCTGTCTCTACTAAAATGCAAAAATTAGCCGGGCGTGGTGGCGGGCGCTGTAATCCAGCTACTTGG

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FIGURE 521B

GAAGCTGAGGCGGGAGAATCATGTGAACCCGGGACGCAGGGGTTGCAGTGAGCGGAGATCGCATCATTGCACTCT
AGCCTGGGCCACAGGGCGAGACTCCGTCTCAAAAAAAAAAAAAATGCACATAGCTATCGAGTGTGCTTTAGCTTGA
AAAGGTGACCTTGCAACTTCATGTCAACTTTCTGGCTCCTCAAACAGTAGGTTGGCAGTAAGGCAGGGTCCCATT
TCTCACTGAGAAGATTGTGAATATTTCCATATGGATTTTCTATTGTTACTCTGGTTCTTTGTTTTAAATAAAAA
TTCTGAATGTACACG

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FIGURE 522

MGTQKVTPALIFAITVATIGSFQFGYNTGVINAPEKIIKEFINKTLTDKGNAPPSEVLLTSLWSLSVAIFSVGGM
IGSFVSVGLFVNRFGRNSMLIVNLLAVTGGCFMGLCKVAKSVEMILIGRLVIGLFCGLCTGFVPMYIGEISPTAL
RGAFTLNQLGIVVGILVAQIFGLEFILGSEELWPLLLGFTILPAILQSAALPFCPESPRFLLINRKEEENAKQI
LQRLWGTQDVSQDIQEMKDESARMSQEKQVTVLELFRVSSYRQPIIIISIVLQLSQQLSGINAVFYYSTGIFKDAG
VQEPIYATIGAGVVNTIFTVVSLEFLVERAGRRTLHMIGLGGMAFCSTLMTVSLLLKDNYNMGMSFVCIGAILVFVA
FFEIGPGPIPWFIWAELFSQGPRPAAMAVAGCSNWTSNFLVGLLFPSSAAHYLGAYVFIIFTGFLITFLAFTFFKV
PETRGRITFEDITRAFEGQAHGADRSGKDGVMEMNSIEPAKETTTNV

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FIGURE 523

CGGCGCCGGGGACCGCTGCCACCCCGCCTAGCGCAGCGCCCCGTCTTCCGCAGCCCAACCGCCTCTTCCCGCCC
CGCCCCATCCCGCCCACGGGCTCCAGTGGGCGGGACCAGAGGAGTCCCGCGTTTCGGGGAGTATGTCAAGGCCGTG
ACCCGTGTATTATTGTCCGAGTGGCCGGAACGGGAGCCAACCATGGCAGCGGGGTTTCGGGCGATGCTGCAGGGTCC
TGAGAAGTATTTCTCGTTTTTCATTGGAGATCACAGCATACAAAAGCCAATCGACAACGTGAACCAGGATTAGGAT
TTAGTTTTGAGTTCACCGAACAGCAGAAAGAATTTCAAGCTACTGCTCGTAAATTTGCCAGAGAGGAAATCATCC
CAGTGGCTGCAGAATATGATAAACTGGTGAATATCCAGTCCCCCTAATTAGAAGAGCCTGGGAACCTGGTTTAA
TGAACACACACATTCCAGAGAACTGTGGAGGTCTTGGACTTGGAACTTTGTATGCTTGTTTAATTAGTGAAGAAT
TGGCTTATGGATGTACAGGGGTTTCAGACTGCTATTGAAGGAAATCTTTGGGGCAAATGCCTATTATTATTGCTG
GAAATGATCAACAAAAGAAGAAGTATTTGGGGAGAATGACTGAGGAGCCATTGATGTGTGCTTATTGTGTAACAG
AACCTGGAGCAGGCTCTGATGTAGCTGGTATAAAGACCAAAGCAGAAAAGAAAGGAGATGAGTATATTATTAATG
GTCAGAAGATGTGGATAACCAACGGAGGAAAAGCTAATTGGTATTTTTTATTGGCACGTTCTGATCCAGATCCTA
AAGCTCCTGCTAATAAAGCCTTTACTGGATTCAATTGTGGAAGCAGATACCCAGGAATTCAGATTGGGAGAAAAGG
AATTAAACATGGGCCAGCGATGTTTCAGATACTAGAGGAATTGTCTTCGAAGATGTGAAAGTGCCTAAAGAAAATG
TTTTAATTGGTGACGGAGCTGGTTTTCAAAGTTGCAATGGGAGCTTTTGATAAAACCAGACCTGTAGTAGCTGCTG
GTGCTGTTGGATTAGCACAAAGAGCTTTGGATGAAGCTACCAAGTATGCCCTGGAAAGGAAAACCTTTCGGAAAGC
TACTTGTAGAGCACCAAGCAATATCATTATGCTGGCTGAAATGGCAATGAAAGTTGAACTAGCTAGAATGAGTT
ACCAGAGAGCAGCTTGGGAGGTTGATTCTGGTCTGCGAAATACCTATTATGCTTCTATTGCAAAGGCATTTGCTG
GAGATATTGCAAATCAGTTAGCTACTGATGCTGTGCAGATACTTGGAGGCAATGGATTTAATACAGAATATCCTG
TAGAAAAAATAATGAGGGATGCCAAAATCTATCAGATTTATGAAGGTACTTCACAAATTCAAAGACTTATTGTAG
CCCGTGAACACATTGACAAGTACAAAAATTAAAAAAATTAAGTGTAGAAATATTGAATAACTAGAACACAAGCCAC
TGTTTCAGCTCCAGAAAAAAGAAAGGGCTTTAACGTTTTTTCCAGTGAAAACAAATCCTCTTATATTAAATCTAA
GCAACTGCTTATTATAGTAGTTTATACTTTTGCTTAACTCTGTTATGTCTCTTAAGCAGGTTTGGTTTTTATTAA
AATGATGTGTTTTCTTTAGTACCACTTTACTTGAATTACATTAACCTAGAAAACCTACATAGGTTATTTTGATCTC
TTAAGATTAAATGTAGCAGAAATTTCTTGAATTTTATTTTTGTAAATGACAGAAAAGTGGGCTTAGAAAGTATTCA
AGATGTTACAAAATTTACATTTAGAAAATATTGTAGTATTTGAATACTGTCAACTTGACAGTAACCTTTGTAGACT
TAATGGTATTATTAAAGTTCTTTTTATTGCAGTTTGGAAAGCATTGTGAAACTTTCTGTTTGGCACAGAAACAG
TCAAAATTTTGACATTCATATTCCTATTTTACAGCTACAAGAACCTTTCTTGAAAATCTTATTTAATTCTGAGC
CCATATTTCACTTACCTTATTTAAAATAAATCAATAAAGCTTGCCTTAAATTATTTTTATATGACTGTTGGTCTC
TAGGTAGCCTTTGGTCTATTGTACACAATCTCATTTCAATATGTTTGCAATTTGGCAAAGAACTTAATAAAATTTG
TCAGTGCTTATTATCAT

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FIGURE 524

MAAGFGRCCRVLRISRFHWRSQHTKANRQREPGLGFSFEFTEQQKEFQATARKFAREEIIPVAAEYDKTGEYPV
PLIRRAWELGLMNTHIPENCGGLGLGTFDACLI SEELAYGCTGVQTAIEGNSLGQMPIIIAGNDQQKKKYLGRMT
EEPLMCAYCVTEPGAGSDVAGIKTKAEKKGDEYIINGQKMWITNGGKANWYFLLARSDPDPKAPANKAFTGFIVE
ADTPGIQIGRKELNMGQRCS DTRGIVFEDVKVPKENVLIGDGAGFKVAMGAFDKTRPVVAAGAVGLAQRALDEAT
KYALERKTFGKLLVEHQAI SFMLAEMAMKVELARMSYQRAAWEVDSGRRNTYYASIAKAFAGDIANQLATDAVQI
LGGNGFNTEYPVEKLMRDAKIYQIYEGTSQIQRLIVAREHIDKYKN

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FIGURE 525A

CCAGGGTGATGCTGAAGATGATGACCTTCTTCCAAGGCCTCTAGAGCCATCAGCCTGTGCCAGGCACCCTCGACT
TGCCTAGAGGCCCCCAAAAGTTGCAGTCCACATCAGAGGCAGAGTCAGAGGCCTCCATGTCGGAGGCCTCCTCTG
AGGACCTGGTGCCACCCCTGGAGGCTGGGGCAGCCCCATATAGGGAGGAGGAAGAGGCGGCGAAGAAGAAGAGG
AGAAGAAGAAGAAGTCCAAAGGCCTGGCCAATGTGTTCTGCGTCTTCACCAAAGGGAAGAAGAAGAAGGGTCAGC
CCAGCTCAGCGGAGCCCCGAGGACGCAGCCGGGTCCAGGCAGGGGGCTGGATGGCCCCGCCCCCACAGTGGAGGAGC
TGAAGGCGGCGCTGGAGCGCGGGCAGCTGGAGGCGGCGCGGCCGCTGCTGGCGCTGGAGCGGGAGCTGGCGGCGG
CGGCGGCGGCGGGCGGTGTGAGCGAGGAGGAGCTGGTGCGGCGCCAGAGCAAGGTGGAGGCGCTGTACGAGCTGC
TGCGCGACCAGGTGCTGGGCGTGCTGCGGCGGCCGCTGGAGGCGCCGCCGAGCGGCTGCGCCAGGCGCTGGCCG
TGGTGGCGGAGCAGGAGCGGAGGACCGCCAGGCGGCGGCGGGGCGGGGACCTCGGGGCTGGCGGCCACGC
GCCCCGCGGCGCTGGCTGCAGCTGTGGCGGCGCGGCTGGCGGAGGCGGCCGAGGAGCGCATGGGCCAGCGGCCG
CCGCGGGCGCCGAGGTCCCCGAGAGCGTCTTTCTGCACTTGGGCCGCACCATGAAGGAGGACCTGGAGGCCGTGG
TGGAGCGGCTGAAGCCGCTGTTCGCCGCGAGTTCGGCGTCTGGCGGCTACGCCGAGAGCTACCACCAGCACT
TCGCGGCCACCTGGCCGCCGTGGCGCAGTTCGAGCTGTGCGAGCGGACACCTACATGCTGCTGCTCTGGGTGG
AGAACCTCTACCCCAATGACATCATCAACAGCCCCAAGCTGGTGGGTGAGCTGCAGGGTATGGGGCTCGGGAGCC
TCCTGCCCCCAGGCAGATCCGACTGCTGGAGGCCACATTCTGTCCAGTGAGGCGGCCAATGTGAGGGAGTTGA
TGGACCGAGCTCTGGAGCTAGAGGCACGGCGCTGGGCTGAGGATGTGCCTCCCCAGAGGCTGGACGGCCACTGCC
ACAGCGAGCTGGCCATCGACATCATCCAGATCACCTCCCAGGCCAGGCCAAGGCCGAGAGCATCACGCTGGACT
TGGGCTCACAGATAAAGCGGGTGCTGCTGGTGGAGCTGCCTGCGTTCCTGAGGAGCTACCAGCGCGCCTTTAATG
AATTTCTGGAGAGAGGCAAGCAGCTGACGAATTACAGGGCCAATGTTATTGCCAACATCAACAACCTGCCTGTCT
TCCGGATGTCCATGGAGCAGAATTGGCAGGTACCCAGGACACCCTGAGCCTCCTGCTGGGCCCCCTGGGTGAGC
TCAAGAGCCACGGCTTTGACACCCTGCTCCAGAACCTGCATGAGGACCTGAAGCCACTGTTCAAGAGGTTACGC
ACACCCGCTGGGCGGCCCCCTGTGGAGACCCTGGAAAAACATCATCGCCACTGTAGACACGAGGCTGCCTGAGTTCT
CAGAGCTGCAGGGCTGTTTTCCGGGAGGAGCTCATGGAGGCCTTGACCTGCACCTGGTGAAGGAGTACATCATCC
AACTCAGCAAGGGGCGCCTGGTCCTCAAGACGGCCGAGCAGCAGCAGCAGCTGGCTGGGTACATCCTGGCCAATG
CTGACACCATCCAGCACTTCTGCACCCAGCACGGCTCCCCGGCGACCTGGCTGCAGCCTGCTCTCCCTACGCTGG
CCGAGATCATTGCGCTGCAGGACCCAGTGCCATCAAGATTGAGGTGGCCACTTATGCCACCTGCTACCTGACT
TCAGCAAAGGCCACCTGAGCGCTATCCTGGCCATCAAGGGGAACCTATCCAACAGTGAGGTCAAGCGCATCCGGA
GCATCTTGAGCGTCAGCATGGGGGCGCAGGAGCCCTCCCGGCCCTATTTTCCCTTATAAAGGTTGGTTAGCTTT
TCCTGTGGCCTGACCTGCCTGTGAGTGCCAGCAAGCCTTGGGCACACCCGCTGGGAGCTGTTAAGAGCAGCGC
TGGTTCTCGGTTCCCTCCCGGTCTCCTGTGCTCTGATGCTACTTCTGCCTAGCCCTGGCGGAGGTGCAGGCCCTG
TCAGCTGGAACCTGGACAGACCTTGGTTTGTTTACATGTCCGATGGGGGCGAGGAGCTCCCATCCTGGGCAGCCAAC
CAGGCAACACCAAGGACTCTTTGTAAACGATAGCTGATCGTGTGCACGCAAGGAAAGAACAGGAGGGAGAGTGC
AGCCAGGCTCAGGGATCCCGGACACCTCTGTCCAGAGCCCCTCCACAGTCGGCCTCATGACTGTCTCTCTCGTG
GGTGGGGCCGAGGGCCCTCTTCAGCTCTCTGGAGACAGGGGGCCGAGCCTCACCCATCTGCCCTCTGCAGCCCAGG
GCCGCCGTGAGCGGGATTACGAATGGTGGAAATGGAAGACAGAACTGGAAGAGAAAGAAGGAAAAGATGAGCTCT
CGTCTGGCAGGGGCTTTTAGGGTCCTGTGGCGAGCTGTGAGCACCGCCAGCGTTAGACGTACATCCAGGTGGCC
CCACGGCCCCCTACAGGCTGGCCCTGCAATGGGGCCCTGAGCCCTCCCTCTTCATCCCCCAAGGCCTCAACTAGAG
GGTGGTCCCCCGAGGGCTTGGTGTCTACTACCGAAGGGCCCCAAGACCTCCTGGGTCTCTCAGGCTCCCCCTTCC
CCAAGGCAGGGACAGGCCCTGGGGGTGCCACCGTGGGCCCTGCCACCCAGAAGTCTGGCTGAGGTCTGGGCAGGG
GCAGGGCAAGCTTGACCTCTCACTGTTGACCCTTTGGCCTCTGTATTTGTTTCCTATTGCCGTGACAGGTTTCCA
CAAACCTTCGTGGATCAAAACGAGGTCTTCCAGTTCTGCGGGTCAGAAGGCTGACCTGGGGCTCAAATCTGGGTGT
CGGCAGTCTGCACTCCTTCTGGAGGCTCTAGGGGAGAATTCATTTCTGGCCTTTTTCATTTTTAGAGGCTGACCG
TAATTTCTGACTTCAGGCTCCTCCATCTTCAGAGCCAGCTGTGGGTAGTTGAATCTTTTTCCCGTCACCTCATTG
AGGCCTCCCCCTCTCCTGCCTCCCTCCACCACTTTTTTTTTTTTTTTTTTGGAGACAGGGTCTTGCTGTGTTGCCCA
GGCTGGAGTGCACTGGCCTGGTCATGGCATCAAGGCTCACTGCAGCCTGGACCTCCTGGTTCAAGTGATCCTCTT
GTCTCAGTCCCCCTGAGACAATCCCCACGCCCAGCTACATATTTTTGTGGATACAGGGTCTCATTCTGTTGCCTA
GGCTTGCTGGAACCTCTGGGCTCAAGGGATCTTGTAGCCTTAGCCTCTAAAGTGCTGGGATTATAGGCATGAG
TCACTCGTACCCGGCCTGCTCTACCGCTTTTAAGGACGCTTATGATCACATTGCGCCTACCCAGAGAACCCAGGT

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FIGURE 525B

CGTCTTTCTATTTTCAGGTCAGCTGATTAGCCACCTTAGTTCCATCTGCAACTTTAGTTCCCACTGGCTGTGTAA
CCTAACATAGTCACAGGCTCTGGGGACTGTACGTGGACATCTTTGGGAGGCCGTTATTCTGCCCACCGCACCCCT
CCGTTTCATCCCCTGCCCTGCCGGGCACCTCGCTCTACCCCAGGAAAAATGTGAGCTCGTTTTCTGCTCGGCATGT
GCTCCCCCTAAGGCTCTGCTCCTCCCTGGGCCTGAAAGTTCCCTTCTCAGCCTGAGAGGGGGCCCTTCGATCTCAG
GCATGACTCAGCCCGGCTGATGCCTCTGCAGTGCTGAGTCAGGATTTGGGGCCGGCTCTCTTGGGTCTGTCCCCCT
TTTCCCAGGTACTGCCTTACAAAGCTGTGGCCAGGAAGTGGCCGGTATAAAGGATGCCCAAGGTCTTTGTACGTG
TGTAGGAGTTAGCGTGTGTGATATTGTTAATATAATAATAATTATTTTTTTAGAGTACTGCTTTTGTATGTATGTT
GAACAGGATCCAGGTTTTTATAGCTTGATATAAAACAGAATTCAAAAGTGAAAAA

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FIGURE 526

MSEASSEDLVPPLEAGAAPYREEEEAACKKKKEKKKSKGLANVFCVFTKGKKKKGQPSSAEPEDAAGSRQGLDGP
PPTVEELKAALERGQLEAARPLLALERELAAAAAAGGVSEELVRRQSKVEALYELLRDQVLGVLRRPLEAPPER
LRQALAVVAEQEREDRQAAAAGPGTSGLAATRPRRWLQLWRRGVAEAAEERMGQRPAAGAEVPEFSVFLHLGRMTK
EDLEAVVERLKPLFPAEFGVVAAYAESYHQHFAAHLAAVAQFELCERDTYMLLLWVENLYPNDI INSPKLVGELQ
GMGLGSLLPQRIRLLEATFLSSEAANVRELMDRALELEARRWAEDVPPQRLDGHCHSELAIDI IQITSQAQAKA
ESITLDLGSQIKRVLLVELPAFLRSYQRAFNEFLERKQLTNYRANVIANINNCLSFRRMSMEQNWQVPQDTLSLL
LGPLGELKSHGFDTLQNLHEDLKPLFKRFTHTRWAAPVETLENI IATVDTRLPEFSELQGCFFREELMEALHLHL
VKEYIIQLSKGRLVLKTAEQQQQLAGYILANADTIQHFCTQHGS PATWLQPALPTLAEI IRLQDPSAIKIEVATY
ATCYPDFSKGHL SAILAIKGNLSNSEVKRIRSILDVSMGAQEPSRPLFSLIKVG

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FIGURE 527

GACTCTCCAGTCCTCAGTCACCTTGGACAAAGAAGTGTGGATCCTCAGATTCCATCTTTTCCAACTCCAAGGTGC
CATGGCAGAGAAGGTGCTGGTAACAGGTGGGGCTGGCTACATTGGCAGCCACACGGTGCTGGAGCTGCTGGAGGC
TGGCTACTTGCCGTGTGGTCATCGATAACTTCCATAATGCCCTTCCGTGGAGGGGGCTCCCTGCCTGAGAGCCTGCG
GCGGGTCCAGGAGCTGACAGGCCGCTCTGTGGAGTTTGGAGAGATGGACATTTTGGACCAGGGAGCCCTACAGCG
TCTCTTCAAAAAGTACAGCTTTATGGCGGTTCATCCACTTTGCGGGGGCTCAAGGCCGTGGGCGAGTCGGTGCAGAA
GCCTCTGGATTATTACAGAGTTAACCTGACCGGGACCATCCAGCTTCTGGAGATCATGAAGGCCCCACGGGGTGAA
GAACCTGGTGTTACAGCAGCTCAGCCACTGTGTACGGGAACCCCCAGTACCTGCCCCCTTGATGAGGCCCCACCCAC
GGGTGGTTGTACCAACCCCTTACGGCAAGTCCAAGTTCTTCATCGAGGAAATGATCCGGGACCTGTGCCAGGCAGA
CAAGACTTGGAACGTAGTGCTGCTGCGCTATTTCAACCCACAGGTGCCCATGCCTCTGGCTGCATTGGTGAGGA
TCCCCAGGGCATAACCAACAACCTCATGCCTTATGTCTCCAGGTGGCGATCGGGCGACGGGAGGCCCTGAATGT
CTTTGGCAATGACTATGACACAGAGGATGGCACAGGTGTCCGGGATTACATCCATGTCGTGGATCTGGCCAAGGG
CCACATTGCAGCCTTAAGGAAGCTGAAAGAACAGTGTGGCTGCCGGATCTACAACCTGGGCACGGGCACAGGCTA
TTCAGTGCTGCAGATGGTCCAGGCTATGGAGAAGGCCTCTGGGAAGAAGATCCCGTACAAGGTGGTGGCACGGCG
GGAAGGTGATGTGGCAGCCTGTTACGCCAACCCAGCCTGGCCCAAGAGGAGCTGGGGTGGACAGCAGCCTTAGG
GCTGGACAGGATGTGTGAGGATCTCTGGCGCTGGCAGAAGCAGAATCCTTCAGGCTTTGGCACGCAAGCC**TGAGG**
ACCCCTCCCCTACCAAGGACCAGGAAAAGCAGCAGCTGCCTGCTCTCCAGCCTCTGGAGGAACTCAGGGCCCTGGA
GCTGCTGGGGCCAAGCCAAGGGCCTCCCCTACCTCAAACCCAGCTGGGCCCGCTTAGCCACCAGGCATGAGGC
CAAGGCTCCACTGACCAGGAGGCCGAGGTCTCTAACTCTTATCTTCCACAGGGTCCAAGAGTTTCATCAGGACCCC
CAAGAGTGAGTGAGGGGGCAAGGCTCTGGCACAAAACCTCCTCCTCCCAGGCACTCATTTATATTGCTCTGAAAG
AGCTTTCCAAAGTATTTAAAAATAAAAACAAGTTTTCTTACACTGG

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FIGURE 528

MAEKVLVTGGAGYIGSHTVLELLEAGYLPVVIDNFHNAFRGGGSLPESLRRVQELTGRSVEFEEMDILDQGALQR
LFKKYSFMAVIHFAGLKAVGESVQKPLDYRVNLTGTIQLLEIMKAHGKLVFSSSATVYGNPQYLPDEAHPT
GGCTNPYGKSKFFIEEMIRDLCQADKTWNVVLLRYFNPTGAHASGCIGEDPQGIPNNLMPYVSQVAIGRREALNV
FGNDYDTEGTGVRDYIHVVDLAKGHIAALRKLKEQCGCRIYNLGTGTGYSVLQMVQAMEKASGKKIPYKVVARR
EGDVAACYANPSLAQEELGWTAALGLDRMCEDLWRWQKQNPSGFGTQA

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FIGURE 529

CGAGCCCCGCCGAACCGAGGCCACCCGGAGCCGTGCCAGTCCACGCCGGCCGTGCCCGGCGGCCTTAAGAACCA
GGCAACCTCTGCCTTCTTCCCTCTTCCACTCGGAGTCGCGCTCCGCGCGCCCTCACTGCAGCCCCTGCGTCGCCG
GGACCCTCGCGCGGACCGAGCCGAATCGCTCCTGCAGCAGAGCCAACATGCCCATCACTCGGATGCGCATGAGAC
CCTGGCTAGAGATGCAGATTAATTCCAACCAAATCCCGGGGCTCATCTGGATTAATAAAGAGGAGATGATCTTCC
AGATCCCATGGAAGCATGCTGCCAAGCATGGCTGGGACATCAACAAGGATGCCTGTTTGTTCGGAGCTGGGCCA
TTCACACAGGCCGATACAAAGCAGGGGAAAAGGAGCCAGATCCCAAGACGTGGAAGGCCAACTTTCGCTGTGCCA
TGAACCTCCCTGCCAGATATCGAGGAGGTGAAAGACCAGAGCAGGAACAAGGGCAGCTCAGCTGTGCGAGTGTAAC
GGATGCTTCCACCTCTCACCAAGAACCAGAGAAAAGAAAGAAAGTGAAGTCCAGCCGAGATGCTAAGAGCAAGG
CCAAGAGGAAGTCATGTGGGGATTCCAGCCCTGATACCTTCTCTGATGGACTCAGCAGCTCCACTCTGCCTGATG
ACCACAGCAGCTACACAGTTCCAGGCTACATGCAGGACTTGGAGGTGGAGCAGGCCCTGACTCCAGCACTGTGCG
CATGTGCTGTGAGCAGCACTCTCCCCGACTGGCACATCCCAGTGGAAGTTGTGCCGGACAGCACCAGTGATCTGT
ACAACCTCCAGGTGTCACCCATGCCCTCCACCTCTGAAGCTACAACAGATGAGGATGAGGAAGGGAAATTACCTG
AGGACATCATGAAGCTCTTGGAGCAGTCGGAGTGGCAGCCAACAAACGTGGATGGGAAGGGGTACCTACTCAATG
AACCTGGAGTCCAGCCCACCTCTGTCTATGGAGACTTTAGCTGTAAGGAGGAGCCAGAAATTGACAGCCCAGGGG
GGGATATTGGGCTGAGTCTACAGCGTGTCTTCACAGATCTGAAGAACATGGATGCCACCTGGCTGGACAGCCTGC
TGACCCCAGTCCGGTTGCCCTCCATCCAGGCCATTCCCTGTGCACCGTTAGCAGGGCCCCCTGGGCCCCCTTTATTC
CTCTAGGCAAGCAGGACCTGGCATCATGGTGGATATGGTGCAGAGAAGCTGGACTTCTGTGGGCCCCCTAACAGC
CAAGTGTGACCCCACTGCCAAGTGGGGATGGGCCTCCCTCCTTGGGTCATTGACCTCTCAGGGCCTGGCAGGCCA
GTGTCTGGGTTTTTTCTTGTGGTGTAAGCTGGCCCTGCCTCCTGGGAAGATGAGGTTCTGAGACCAGTGATCAG
GTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTTCTCTGAGCCCAGCTGCCTGGAGAGGGTCTCGCTGTCA
CTGGCTGGCTCCTAGGGGAACAGACCAGTGACCCAGAAAAGCATAACACCAATCCCAGGGCTGGCTCTGCACTA
AGCGAAAATTGCACTAAATGAATCTCGTTCCAAAGAACTACCCCTTTTTCAGCTGAGCCCTGGGGACTGTTCCAAA
GCCAGTGAATGTGAAGGAAACTCCCCCTCCTTCGGGGCAATGCTCCCTCAGCCTCAGAGGAGCTCTACCCTGCTCC
CTGCTTTGGCTGAGGGGCTTGGGAAAAAAACTTGGCACTTTTTCTGTGTGGATCTTGCCACATTTCTGATCAGAGG
TGTACACTAACATTTCCCCCGAGCTCTTGGCCTTTGCATTTATTTATACAGTGCCTTGCTCGGGGCCACCACCC
CCTCAAGCCCCAGCAGCCCTCAACAGGCCAGGGAGGGAAGTGTGAGCGCCTTGGTATGACTTAAATTTGGAAAT
GTCATCTAACCATTAAGTCATGTGTGAACACATAAGGACGTGTGTAAATATGTACATTTGTCTTTTTATAAAAAG
TAAATTTGTT

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FIGURE 530

MPITRMRMPWLEMQINSNQIPGLIWINKEEMIFQIPWKHAAKHGWDINKDACLFERSWAIHTGRYKAGEKEPDPK
TWKANFRFCAMNSLPDIEEVKDQSRNKGSSAVRVYRMLPPLTKNQRKERKSKSSRDAKSKAKRKSCGDSSPDTFSD
GLSSSTLPDDHSSYTVPGYMQDLEVEQALTPALSPCAVSSTLPDWHIPVEVVPDSTSDLYNFQVSPMPSTSEATT
DEDEEGKLPEDIMKLLEQSEWQPTNVDGKGYLLNEPGVQPTSVYGDFSCKEEPEIDSPGGDIGLSLQRVFTDLKN
MDATWLDSLLTPVRLPSIQAIPCAP

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FIGURE 531A

CTGGGCCAGGCGCCGGGGCAGGAAGGGAGGCGGCCCGCTGGCCATTCTTAAAGGCGCCCGAGTGTAGGCGACAG
GCCGCTGACGGCGGGAAGGAAAATGAGTGTAGTCTTTGGTTGTTTGTGATGTTGCCGAAGATTTAGTGGAAGAGCT
GAGAAAAGTTTCGTTTTTCGCAAAGAAACGAACAACGCTGCTATTATAATGAAGATTGACAAGGATAAACGCCTGGT
GGTACTGGATGAGGAGCTTGAGGGCATTTCACCAGATGAACCTTAAAGATGAACCTACCTGAACGACAACCTCGCTT
CATTGTGTATAGTTATAAATATCAACATGATGATGGAAGAGTTTCATATCCTCTGTGCTTTATTTTCTCCAGTCC
TGTGATGTAAGCCTGAACAACAGATGATGATGCTGGAAGTAAGAATAAGCTAGTCCAGACAGCTGAACCTAAC
CAAGGTATTTGAAATAAGAAATACCGAAGACCTAACTGAAGAATGGTTACGTGAGAACTTGGATTTTTTCACTA
ATGTGAACCTCTGTGTTTCTAAAGTATTTATGTATTAACCTGACCATACTGGAATCAGACATAAATACTTATTTA
TGCCTAAAAATGCACTGTTACTTACAGTTTGTTCCTGCAGTAAAGAAAAATTCTTCATTTGTGCAAAATTTGAA
CAAAGAGGAAATCATCTTCATAGTAATGAACTTTGTAAAGTGTTCCTTATATTGGTAATTGTTAGGTGGACTA
CTTTTCTCCAGGGACTTTTTGCACTCTTGTGACTAATTTCTATACTTATGGTTCGGAATTTGTTACTATTTACA
GACACCATTTGGAAGTGGATATATTAGATTGTGAGAGACAACAGTTGCCTCCTTTTGACAAATACTGGATATTAG
CAGTTTATTTATGAAATAGCGTATTATCACTTGTCAAATCATTTGAAATTCATTTGGGGTCAAAGACTTGAGTGA
CCCAGTATTGAGCCATGAATAATTTAGTGTAACCTGTATTACAAGTACATTGATGAATTTCTGTATCTTCTTTGGT
TTCTGTATCTTTTTAATCAAGTCTAGAACTATGTTTCATCAGTCACTCATTTTTAAGGTCGGGAGTTAGATTTT
ATGATAGAATTATGACTGTTAGCTTTTCTCCTTATAGCATCTTAGTCTTAGAAATTGGTGGGTGTAATAATCAA
GGGCTTCATTCCTTTTATGTCATTTCTAGACAGTTTGAATCTAGGTAAATAACACTTTATTTATAAAGCACCTC
AATGTCCTGTGAACACTAATTATTTTAAATGTGTTAATACTGTGCCTTTGATTTGTTAGCTTTAAAGTTAGTTTA
AGACTTTTACACTGCCAGTATTCCACATTTGGTGAAATTAATACTTTTTTAAAGGTTCCAAATAAAATAATTTTC
TAATGTGTATATCTGAAATTTGTAATAAAATCAACTTCATATTTTAAAAATTCCAATATCTGCTTGCATTGGTG
TAATATATGGCAGTCGAGAGTTATAATTTTGGGTATACTTGTGGTTAGTTTTGTGCCATAGGAAAAAATTATCTT
AAAACTTTGGCCATAGTTAATAACATTAACACTTCAATAGCAATCACATCTTATATCCTAAATGTCAGAAGATAT
TCTGAACTGGATGCCTGAATAGTTAACTAAACCAGTCTTGGTTAGATGATGGTACTCTTGGCATAAAGCGTAGGA
TTCTGATATTTGGCATACTTGTAAAAACAAATACATAAGTAACCATTGAACATTAATTTGATAATAGGTCTAGAG
ACTCTAAAAACTAACCAACTTGGTGAGTGTATTCTTATATTAAGAATATCTTAGTCATCTCAAACTAGCAAAA
TTTAAATTTTGGCATGTTTTCCATTCATATGTTCTTTGCATTTTATTTTTGAGGTTTCTGTGAGAAGTAAAGATA
GTTGGAATTTTTCGATATTGAATAGAACATCTTCTGTTCCCAACACTGTTTGGCTTCACTAATTTAGAAGTCAG
GAAGCAATAGAAAGTTGGAGATGAGGAAGTGCTAGAGTAGGTGTTTGTGTTTGGTTCTTGGAGGGAAGATTCTT
TATTCCAATTTCCAGAGAGAAGAGAAAACCTACCCAGGAAGTTTAAAAATTCTTTAAACAGGTATTTTGATATTG
GAGAATAACATGCATATAATTCTGTAGGAATGCACATGTAATCCAAGTGAGTGGAGAGTGTTTTTAATGTTTTTG
AATGAAGGAAATGAGGTTTTGTTTACCTGTTTTGCAGCAGTAAGAGAACTAGTGCTGCAAGAATGTATTTTTT
AATGAAGTTCCTTATTTTGTCTTGCATGTTTTAGTTTTGCTTATTTTTAAATTTGGAGGTCTCCATAATGTCAG
ATAATATTGACCTGCCATACGTTAGCACTCTTAGTTCGCTACTGTCTTTAACAGGAGCAAAGAGCTGTGATAAA
CCATGCTTTTTTGAGCTTGTCTGACTCCTAATTAATAACATGTTTTTGGCAAGACAACAGATTGAGGTTAGAGGA
TCAGTAGGACATTTTTATTCCATCTGTCTATGGGGAAATTTACAAATCCCGTGCTCTAAATGTTCTCAAACAT
TTATATAGATTTCCCTTTTATCTTACTAAATTTGCAATTGTTCTTTTCAAGTATGTTTCGTATTTACTGTCTTTT
TTTCTGCCATTTCCCAATAATAACTCCAGATTTTATAATCCAGTTTTTACATTCCGTTATCTTTCTGGTACAA
CCATTCCCATTGAGCCTTAAATCTGAGTCCTTTTTTAGCAGCAACTTTTTTCTGGGATCCTCCTTCGTGGTCTTC
TAAGTCAGTGTTAGTTTTGAAATTTTTGGCCCTGCATAAGTTCTGCATAGCATCTAATGTCAAAATAGAACCAAC
TGGTAATCACAGTATTATTTAGTGTGGTTTTCCATGACAACAAAAATACATACGAAGAAAACCTTCTCAGGTTACTA
TGCTGAAATTTCCAAATGTCTGAGTTTTGAATAGTGATCACTTTGTTCTGGTATTGACGCAATTATATTAGGAAA
AAAGTTGGTTGACTGTTTTTGTGTTAATTGACTTCTAAAAATGTTCAAATTTGTCTAGTTCTAAAAGTTTACTAAATG
CCTAGTGCAGTTAAACATACTCTTGTGTTAAGTGTGTGTTGCTAAATTTTTTACTGTCTATTACTAAATAATCTGTG
TGGCAAAATGTGTGTCAGCACTTTTCCCTCCTTTTTTATCTCCTATTTTTCAGGAGTCAAATGTAGCCATAAACTG
TATCCTTGTCTGACACTTTAGCTAAAAATTTCCAGTTAGGGGAGTTTATTGCCAAATTAATTTGGCTGTTCCCC
CCAACCCATATAGATATTAAGGAAGGTGTACTTAAAAATGTTTGGACTGCTTTTAAACCTGAGCAATGTCATT
AATCCATATGTGGACTAGTGATGAATAGATATTTTCATAAGAGTTTAAATGACTGATATTTGGTGGAGTAGAGA
GTAACCTCAATATTCTATCAATTCAAGTATTCTTACTATGGTTGCCTTTCCCTATTTGTTCAATAGACTGATAATA

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FIGURE 531B

CTGGTATTTATAGAGTTTGAGCCATTACAACCTTTTGTGAGGATGTGTTTCAAACATTTCTGGACAAATCTTATTT
TGTATTTCTGGAAGAATGTAGTAATCTTCTAGACCGCTTAAAACCAATGCTCCCAAGCTGAATATTCTTGAGCAA
ATTTGTTTTTTTATTATGCCATTTGACATTTCAAATCAGTGCTCATATACAGTAAACTTGTGATAGAAATTGTATT
TTATTGCTTTTTTGGATTATAATTCATATAAAATATAATTACTTGAATATTGTTTGAGATCATTAAACATGCCAGGGC
AGTTCCCACTGATTTAGATGGTCCAAGATAATCTCATTTCAGGAGGCTTGAAACATTAATGGTTTAGTCTTGAGAA
TTTTAACAGTTCTCTGTCATCGTTTAACAAAACCAACAACCTGACACAACCTCCTTAAGCTGTGGTTTCAGTCTCTG
CTAGTTCATATTGCATGTTTATTTTGGACAGTCTTTTGTTAAGCATGGTGCTTGTACTGGTTTAAATAAAATGTT
AACATT

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FIGURE 532

MSESLVVCDAEDLVEKLRKFRFRKETNNAAIIMKIDKDKRLVVLDEELEGISPDELKDELPERQPRFIVYSYKY
QHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNKLVTAE LTKVFEIRNTEDLTEEWLREKLGFFH

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FIGURE 533

AGGAAGCCGACTAGGCGAATTCACCTTACTGACCGGCTGGGCTGCTCTGAGACATGGAGGAAGCCAGTGAAGGTG
GAGGAAATGATCGTGTGCGGAACCTGCAAAGTGAGGTGGAGGGAGTTAAGAATATTATGACCCAGAATGTGGAGC
GGATCCTGGCCCGGGGGGAAAACCTTGAACATCTCCGCAACAAGACAGAGGATCTGGAAGCCACATCTGAGCACT
TCAAGACGACATCGCAGAAGGTGGCTCGGAAATTCTGGTGGAAGAACGTGAAGATGATTGTCCTTATCTGCGTGA
TTGTTTTTATCATCATCCTCTTCATTGTGCTCTTTGCCACTGGTGCCCTTCTCTTAAGTAACAGGGAACCTCTCCC
ACCTGCCCTTCTTTTCAGGGACAACCCTCCATAAATGTGTGCCAAGAGGGTCTCCTTTCCTGTCTTCCTCTACAG
AGAATGCTGCTCGGTCCTCCTACCCCTCTTCCCGAGGCCCTGCTGCCACGTTGTATGCCCCAGAAGGTACCTTGG
TCCCCCGGAAGGAGAGAGAAAAAGAGAGATGGACTGTGGCTGCATTTCTTGGGTCCTTAGAGTGGGCTGGAGAGAC
CTAGAGGGCCCAGCATGTGGCTGGGAAACTGTTGGTGGCCAGTGGGTAATAAAGACCTTTCAGTATCCCTAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 534

MEEASEGGGNDVRNLQSEVEGVKNIMTQNVERILARGENLEHLRNKTEDLEATSEHFKTTSQKVARKFWWKNVK
MIVLICVIVFIIILFIVLFATGAFS

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FIGURE 535A

GGCCCGGCTGCGAGGAGGAGGCGGCGGCGGCGCAGGAGG**ATGT**ACTTGGTGGCGGGGACAGGGGGTTGGCCGGC
TGCGGGCACCTCCTGGTCTCGCTGCTGCTGGGGCTGCTGCTGCTGCTGGCGCGCTCCGGCACCCGGGCGCTGGTCTGC
CTGCCCTGTGACGAGTCCAAGTGCAGAGAGCCCAGGAACTGCCCGGGGAGCATCGTGCAGGGCGTCTGCGGGCTGC
TGCTACACGTGCGCCAGCCAGAGGAACGAGAGCTGCGGCGGCACCTTCGGGATTTACGGAACCTGCGACCCGGGG
CTGCGTTGTGTATCCGCCCCCGCTCAATGGCGACTCCCTCACCGAGTACGAAGCGGGCGTTTTGCGAAGATGAG
AACTGGACTGATGACCAACTGCTTGGTTTTAAACCATGCAATGAAAACCTTATTGCTGGCTGCAATATAATCAAT
GGGAAAATGTGAATGTAACACCATTGCAACCTGCAGCAATCCCTTTGAGTTTCCAAGTCAGGATATGTGCCTTTCA
GCTTTAAAGAGAATTGAAGAAGAGAAGCCAGATTGCTCCAAGGCCCGCTGTGAAGTCCAGTTCTCTCCACGTTGT
CCTGAAGATTCTGTTCTGATCGAGGGTTATGCTCCTCCTGGGGAGTGTGTCCCTTACCCAGCCGCTGCGTGTGC
AACCCCGCAGGCTGTCTGCGCAAAGTCTGCCAGCCGGGAAACCTGAACATACTAGTGTCAAAGCCCTCAGGGAAG
CCGGGAGAGTGTGTGACCTCTATGAGTGCAAACAGTTTTTCGGCGTGGACTGCAGGACTGTGGAATGCCCTCCT
GTTTCAGCAGACCGCTGTCCCCCGACAGCTATGAACTCAAGTCAGACTAACTGCAGATGGTTGCTGTACTTTG
CCAACAAGATGCGAGTGTCTCTGCTTATGTGGTTTCCCCGTGTGTGAGGTGGGATCCACTCCCCGCATAGTC
TCTCGTGGCGATGGGACACCTGGAAGTGTGTGATGTCTTTGAATGTGTTAATGATACAAAGCCAGCCTGCGTA
TTTAACAATGTGGAATATTATGATGGAGACATGTTTCAATGGACAACCTGTCGGTTCTGTGATGCCAAGGGGGC
GTTGCCATCTGCTTCACTGCCCAGTGTGGTGAGATAAACTGCGAGAGGTACTACGTGCCCGAAGGAGAGTGTGC
CCAGTGTGTGAAGATCCAGTGTATCCTTTTAATAATCCCGCTGGCTGCTATGCCAATGGCCTGATCCTTGCCAC
GGAGACCGGTGGCGGGAAGACGACTGCACATTCTGCCAGTGCCTCAACGGTGAACGCCACTGCGTTGCGACCGTC
TGCGGACAGACCTGCACAAACCCTGTGAAAGTGCTGGGGAGTGTGCCCCTGTGTGCGAAGAACCAACCATCATC
ACAGTTGATCCACCTGCATGTGGGAGTTATCAAACCTGCACCTCTGACAGGGAAGGACTGCATTAATGGTTTCAA
CGCGATCACAATGGTTGTGCGACCTGTGAGTGATAAAACCCGAGGAACTATGTTTCAGAACGTAAACAAGGCTGC
ACCTTGAACTGTCCCTTCGGTTTCTTACTGATGCCCCAAACCTGTGAGATCTGTGAGTGCCGCCCCAAGGCCCAAG
AAGTGCAGACCCATAATCTGTGACAAGTATTGTCCACTTGGATTGCTGAAGAATAAGCACGGCTGTGACATCTGT
CGCTGTAAGAAATGTCCAGAGCTCTCATGCAGTAAGATCTGCCCTTGGGTTTCCAGCAGGACAGTACAGGCTGT
CTTATCTGCAAGTGCAGAGAGGCCTCTGCTTCAGCTGGGCCACCCATCCTGTCGGGCACCTTGTCTCACCGTGGAT
GGTCATCATCATAAAAAATGAGGAGAGCTGGCACGATGGGTGCCGGGAATGCTACTGTCTCAATGGACGGGAAATG
TGTGCCCTGATCACCTGCCCGGTGCCTGCCTGTGGCAACCCACCATTACCCCTGGACAGTGTGCCCATCATGT
GCAGATGACTTTGTGGTGCAGAAGCCAGAGCTCAGTACTCCCTCCATTTGCCACGCCCTGGAGGAGAATACTTT
GTGGAAGGAGAAACGTGGAACATTGACTCCTGTACTCAGTGCACCTGCCACAGCGGACGGGTGCTGTGTGAGACA
GAGGTGTGCCACCGCTGCTCTGCCAGAACCCCTCACGCACCCAGGATTCTGTGCTGCCACAGTGTACAGATCAA
CCTTTTCGGCCTTCCTTGTCCCGCAATAACAGCGTACCTAATTACTGCAAAAATGATGAAGGGGATATATTCCTG
GCAGCTGAGTCTTGAAGCCTGACGTTTGTACCAGCTGCATCTGCATTGATAGCGTAATTAGCTGTTTCTCTGAG
TCCTGCCCTTCTGTATCCTGTGAAAGACCTGTCTTGAGAAAAGGCCAGTGTGTCCCTACTGCATAGAAGACACA
ATTCCAAAGAAGGTGGTGTGCCACTTCAGTGGGAAGGCCTATGCCGACGAGGAGCGGTGGGACCTTGACAGCTGC
ACCCACTGCTACTGCCCTGCAGGGCCAGACCCTCTGCTCGACCGTCAGCTGCCCCCTCTGCCCTGTGTTGAGCCC
ATCAACGTGGAAGGAAGTTGCTGCCCAATGTGTCCAGAAATGTATGTCCAGAACCAACCAATATACCCATTGAG
AAGACAAACCATCGAGGAGAGGTTGACCTGGAGGTTCCCTGTGGCCCACGCCTAGTGAAGATGATATCGTCCAT
CTCCCTAGAGATATGGGTACCTCCAGGTAGATTACAGAGATAACAGGCTGCACCCAAGTGAAGATTCTTCACTG
GACTCCATTGCCCTCAGTTGTGGTTCCCATAAATTATATGCCTCTCTATTATAATAGCATTCTTATTCATCAATCAG
AAGAAACAGTGGATAACCACTGCTTTGCTGGTATCGAACACCAACTAAGCCTTCTTCCTTAAATAATCAGCTAGTA
TCTGTGGACTGCAAGAAAGGAACCAGAGTCCAGGTGGACAGTTCCAGAGAATGCTAAGAATTGCAGAACAGAT
GCAAGATTCACTGGCTTCTACAGCATGCAAAAACAGAACCATCTACAGGCAGACAATTTCTACCAAACAGTGTGA

AGAAAGGCAACTAGGATGAGGTTTCAAAGACGGAAGACGACTAAATCTGCTCTAAAAAGTAAACTAGAAATTTGT
GCACTTGCTTAGTGGATTGTATTGGATTGTGACTTGATGTACAGCGCTAAGACCTTACTGGGATGGGCTCTGTCT
ACAGCAATGTGCAGAACAAAGCATTCCCACTTTTCTCAAGATAACTGACCAAGTGTCTTTCTTAGAACCAAAGTTT
TTAAAGTTGCTAAGATATATTTGCCTGTAAGATAGCTGTAGAGATATTTGGGGTGGGGACAGTGAGTTTGGATGG
GGAAATGGGTGGGAGGTTGGTGTGGGAAGAAAAATTGGTCAGCTTGGCTCGGGGAGAAACCTGGTAACATAAAA
GCAGTTCAGTGGCCAGAGGTTATTTTTTCTTATTGCTCTGAAGACTGCACTGGTTGCTGCAAGCTCAGGCCT

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FIGURE 535B

GAATGAGCAGGAAACAAAAAGGCCTTGCGACCCAGCTGCCATAACCACCTTAGAACTACCAGACGAGCACATCA
GAACCCCTTTGACAGCCATCCCAGGTCTAAAGCCACAAGTTTCTTTTCTATACAGTCACAACCTGCAGTAGGCAGTG
AGGAAGCCAGAGAAATGCGATAGCGGCATTTCTCTAAAGCGGGTTATTAAGGATATATACAGTTACACTTTTTGC
TGCTTTTATTTTCTTCCAAGCCAATCAATCAGCCAGTTCCCTAGCAGAGTCAGCACATGAACAAGATCTAAGTCAT
TTCTTGATGTGAGCACTGGAGCTTTTTTTTTTTTTTACAACGTGACAGGAAGAGGAGGGGAGAGGGGTGACGAACACCA
GGCATTTCAGGGGCTATATTTCACTGTTTGTTGTTGCTTTGTTCTGTTATATTGTTGGTTGTTTCATAGTTTTTG
TTGAAGCTCTAGCTTAAGAAGAACTTTTTTTAAAAAGACTGTTTGGGGATTCTTTTTCTTATTATATACTGAT
TCTACAAAATAGAACTACTTCATTTTAATTGTATATTATTCAAGCACCTTTGTTGAAGCTCAAAAAAATGATG
CCTCTTTAACTTTAGCAATTATAGGAGTATTTATGTAACTATCTTATGCTTCAAAAAACAAAAGTATTTGTGTG
CATGTGTATATAATATATATATATACATATATATTTATACACATACAATTTATGTTTTCTGTTGAATGTATTTT
TATGAGATTTTAACCAGAACAAAGGCAGATAAACAGGCATTCCATAGCAGTGCTTTTGATCACTTACAAATTTTT
TGAATAACACAAAATCTCATTCTACCTGCAGTTTAATTGGAAAGATGTGTGTGTGAGAGTATGTATGTGTGTGTG
TGTGTGTGTGTGTGTGCGCGCGCACGCACGCCTTGAGCAGTCAGCATTGCACCTGCTATGGAGAAGGGTATTCCT
TTATTA AAAATCTTCCTCATTGATTGCTTTTCAAGTTGGTTTTTCAATTTGCTCACTGGCCAGAGACATTGATGGC
AGTTCTTATCTGCATCACTAATCAGCTCCTGGATTTTTTTTTTTTTTTTTTCAAACAATGGTTTGAAACAACCTAC
TGGAATATTGTCCACAATAAGCTGGAAGTTTGTGTAGTATGCCTCAAATATAACTGACTGTATACTATAGTGGT
AACTTTTCAAACAGCCCTTAGCACTTTTATACTAATTAACCCATTTGTGCATTGAGTTTTCTTTTAAAAATGCTT
GTTGTGAAAGACACAGATACCCAGTATGCTTAACGTGAAAAGAAAATGTGTTCTGTTTTGTAAAGGAACTTTCAA
GTATTGTTGTAAATACCTTGACAGAGGTTGCTGAACTTTAAAAAAAATTAATTTATTATTATAATGACCTAATTT
ATTAATCTGAAGATTAACCATTTTTTTGTCTTAGAATATCAAAAAGAAAAAGAAAAGGTGTTCTAGCTGTTTGC
ATCAAAGGAAAAAAGATTTATTATCAAGGGCAATATTTTTATCTTTTCCAAAATAAATTTGTTAATGATACAT
TACAAAAATAGATTGACATCAGCCTGATTAGTATAAAATTTTGTGGTAATTAATCCATTCCCTGGCATAAAAAAGTC
TTTATCAAAAAAATTTGTAGATGCTTGCTTTTTTGTTTTTTCAATCATGGCCATATTATGAAAATACTAACAGGAT
ATAGGACAAGGTGTAAATTTTTTTATTATTATTTTAAAGATATGATTTATCCTGAGTGCTGTATCTATTACTCTT
TTACTTTGGTTCCTGTTGTGCTCTTGTAAGAAAAAATAAATTTTCTGAAGAATAAAATAGATATATGGCACTT
GGAGTGCATCATAGTTCTACAGTTTGTTTTTGTCTTCAAAAAAGCTGTAAGAGAATTATCTGCAACTTGATT
CTTGGCAGGAAATAAACATTTTGAGTTGAAATCAAAAAAAAAAAAAAAAAA

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FIGURE 536

MYLVAGDRGLAGCGHLLVSLGLLLLLLARS GTRALVCLPCDESKCEEPRNCPGSIVQGVCGCCYTCASQRNESC
GTFTGIYGTCDRGLRCVIRPPLNGDSLTEYEAGVCE DENWTDDQLLGFKPCNENLIAGCNIINGKCECNTIRTCSN
PFEFFPSQDMCLSALKRIEEKPD C SKARCEVQFSPRCPEDSVLIEGYAPPG ECCPLPSRCVCNPAGCLRKVCQPG
NLNILVSKASGKPG ECCDLYECKPVFGVDCRTVECPFVQQTACPPDSYETQVRLTADGCCTLPTRCECLSGLCGF
PVCEVGSTPRIVSRGDGTPGKCCDVFE CVNDTKPACVFNNVEYYDGMFRMDNCRFCRCQGGVAICFTAQCGEIN
CERYVPEGECCPVCEDPVYPFNNPAGCYANGLILAHGDRWREDDCTFCQCVNGERHCVATVCGQTCTNPVKVPG
ECCPVCEEPTIIITVDPPACGELS NCTLTGKDCINGFKRDHNGCRTQCQINTEELCSERKQGCTLNCPFGFLTDAQ
NCEICECRPRPKKCRPIICDKYCPLG LLKNKHGCDICRCKKCP ELSCSKICPLGFQQDSHGCLICKCREASASAG
PPILSGTCLTVDGHHHKNEESWHDGCRECYCLNGREMCALITCPVPACGNPTIHPGQCCPSCADDFVVQKPELST
PSICHAPGGEYFVEGETWNIDSCTQCTCHSGRVLCE TEVCPPLLCQNP SRTQDSCCPQCTDQFFRPSLSRNNSVP
NYCKNDEGDI FLAAESWKPDVCTSCICIDSVISCFSESCPSVSCERPVL RKGQCCPYCIEDTIPKKVVCHFSGKA
YADEERWDLDSCTHCYCLQGQTL CSTVSCPPLPCVEP INVEGSCCPMCP EMYVPEPTNIPIEKTNHRGEVDLEVP
LWPTPSENDIVHLPRDMGHLQVDYRDNRLHP SEDSSLDSIASVVPIIICLSIIIAFLFINQKKQWIPLLCWYRT
PTKPSSLNNQLVSVDCCKGTRVQVDSSQRMLRIAEPDARFSGFY SMQKQNH LQADNFYQTV

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FIGURE 537

CTCGGAAGCCCGTCACC**ATG**TCGTGCGAGTCGTCTATGGTTCTCGGGTACTGGGATATTTCGTGGGCTGGCGCACG
CCATCCGCCTGCTCCTGGAGTTCACGGATACCTCTTATGAGGAGAAACGGTACACGTGCGGGGAAGCTCCTGACT
ATGATCGAAGCCAATGGCTGGATGTGAAATTCAAGCTAGACCTGGACTTTCCTAATCTGCCCTACCTCCTGGATG
GGAAGAACAAGATCACCCAGAGCAATGCCATCTTGCGCTACATCGCTCGCAAGCACAAACATGTGTGGTGAGACTG
AAGAAGAAAAGATTGAGTGGACATCATAGAGAACCAAGTAATGGATTTCCGCACACAACCTGATAAGGCTCTGTT
ACAGCTCTGACCACGAAAACTGAAGCCTCAGTACTTGGAAGAGCTACCTGGACAACCTGAAACAATTCTCCATGT
TTCTGTGGAAATTCTCATGGTTTGCCGGGGAAAAGCTCACCTTTGTGGATTTTCTCACCTATGATATCTTGGATC
AGAACCGTATATTTGACCCCAAGTGCCTGGATGAGTTCCCAAACCTGAAGGCTTTCATGTGCCGTTTTGAGGCTT
TGGAGAAAATCGCTGCCTACTTACAGTCTGATCAGTTCTGCAAGATGCCCATCAACAACAAGATGGCCCAGTGGG
GCAACAAGCCTGTATGCT**GA**GCAGGAGGCAGACTTGCAGAGCTTGTTTTGTTTCATCCTGTCCGTAAGGGGTCAG
CGCTCTTGCTTTGCTCTTTTCAATGAATAGCACTTATGTTACTGGTGTCCAGCTGAGTTTCTCTTGGGTATAAAG
GCTAAAAGGGAAAAAGGATATGTGGAGAATCATCAAGATATGAATTGAATCGCTGCGATACTGTGGCATTTCCTT
ACTCCCCAACTGAGTTCAAGGGCTGTAGGTTTCATGCCCAAGCCCTGAGAGTGGGTACTAGAAAAAACGAGATTGC
ACAGTTGGAGAGAGCAGGTGTGTTAAATGGACTGGAGTCCCTGTGAAGACTGGGTGAGGATAACACAAGTAAAC
TGTGGTACTGATGGACTTAACCGGAGTTCGGAAACCGTCCTGTGTACACATGGGAGTTTAGTGTGATAAAGGCAG
TATTTCAAGACTGGTGGGCTAGCCAATAGAGTTGGCAATTGCTTATTGAACTCATTAAAAATAATAGAGCCCCAC
TTGACACTATTCATAAAATTAATCTGGAATTTAAGGCCCAACATTAAACACAAAGCTGTATTGAT

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FIGURE 538

MSCESSMVLGYWDIRGLAHAIRLLLEFTDTSYEEKRYTCGEAPDYDRSQWLDVKFKLDLDFPNLPYLLDGKNKIT
QSNAILRYIARKHNMCGETEEEEKIRVDIIENQVMDFRTQLIRLCYSSDHEKLPQYLEELPGQLKQFSMFLWKFS
WFAGEKLTfVDFLTyDILDQNRIFDPKCLDEFPNLKAFMCRFEALEKIAAYLQSDQFCKMPINNMAQWGNKPVC

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FIGURE 539

CGGCTGCTGCTGCCACTGCTGTGCTGGGGGCCCCGGTCGCCAGGCCAAAAAGCCCTCCACGTTTGAGGGGAGTCATG

AGCCGTTTCTCTGAATGTGTTAAGAAGTTGGCTGGTTATGGTGTCCATCATAGCCATGGGGAACACGCTGCAGAGC
TTCCGAGACCACACTTTTTCTCTATGAAAAGCTCTACACTGGCAAGCCAAACCTTGTGAATGGCCTCCAAGCTCGG
ACCTTTGGGATCTGGACGCTGCTCTCATCAGTGATTTCGCTGCCTCTGTGCCATTGACATTACACAACAGACGCTC
TATCACATCACACTCTGGACCTTCCCTCCTTGGCCCTGGGGCATTTCCTCTCTGAGTTGTTTGTCTATGGAAGTGA
GCTCCACGATTGGCGTCCTGGCACCCCTGATGGTGGCAAGTTTCTCCATCCTGGGTATGCTGGTGGGCTCCGG
TATCTAGAAGTAGAACCAGTATCCAGACAGAAGAAGAGAAACTGAGGGCCAGCATTATCACCTCCAGGACTTCTC
GTTTTCCACCTTGGCCATCTTCTTCCTTCGTCGCTCTCTCTCTTAATTTCTTTTCTATTCCATCATCTGCCCTT
TTATTCACTTTATAGCCTCTTTTTTTAATTTTTTAAATTTAAAGATATGCATACTGAAAAGTATATAACATGTACG
TACAATTTAAAGAATAATTTTTAAAGTGAATACTACGTAACCTCCATCCAAGTCAAGAAATTGCCAGCTTCTCGGAA
GCCCCTGTGCTCCTTCCCCTACCTGCAACCTCTTCCAGGCTCCCTTTTCCAGCCTTCCCCTTTTTCCCTTTTA
TTTTCATGCCCTTGATTTGACTTGTGTGGTGGGAACATGTGAACTATGAACTTAAACCTGCTGCCCACCCAGAGC
AGCTGTGACCAAGGGCTGCCTCAAGGGGTTGTCCACGCAGGTTGGGCTCCTCTCTGCTGCTGGACCCAAGACTCT
GAACCTTCCAAGGGACAGGCAGTTCTTCTAAGAAGGGCTCCCCGTGTGTGTGAGCAAGACCACAGCTCTCCTTCTA
TCTACAGATGCATGAGGGTTGGAAGAGTCTGGGCTGTTTTTAGACCTTCTGGTCAGCTGTATTTGTGTAACAAC
TTTGTAATAAATAGAAAAACCCTCTGCTCTGATCAGTTCTTGTACTTTGACCTCTGCTAAGACAAGAGCATGGCT
GCCTCCTCTGAGCCCTAGGAGAATCACAGCTTTATGCCTGATTGAATACACCATAGTGAGTAGGACAGCTCATGA
CACAGGTCAGCCTGGCTGCCTCCGGCTCCTTACTGTCAATTTGCTCAFTCCTCTTGTATTCTTGAAGTCAAATCTT
CTTTTTTCTCACCTTCAAGAGTCTGCGTTCACAACTAAACACTAAGTGCCCTTTCTTATTTCTCTCTAAAGAAGA
AACAGATTCTTGAGAGAGCAGAGACAAAAAATAGAACTAGGCAGCATAGATGAAACAACATGCATGACATGGGAA
GAAGACAACATAAACCCCGAGGAGAATGCACTGGAATGGACAGTTGCTCTTAAACCCTACCCAGAGGGCCTCCCC
AGCTGGACCCCTCATACACAGTGTGTGTATCCAAAAGGCCATTGCTATTTTCAGCAAATATTTGTTGAGTACTTCTC
CATGCCGGACACTTGGGAAAGAGAAATGAACGACACAGGCAATGCCCTGCCCTGTGGGCCTTATATTATAGTCA
AGGTAACAGAATCAACAAGCCAACACAAAAATAAAGAACTTCAAATAGGGATAAGAAGTCTAACAACACAAAGT
ATTTTGGTCAAGAAGGAATGTGGGGTGGGCAGTGGGGAACGTAACCTTAAATTAGATCATCAGAAAGTCTCCTG
AGGAGATGGATTTTTTTTTTGTTTTTTTAGAGACGGGGTTCACTCTGTCACCCAGGCTGGGAATTGCAGTGGCAC
AATCCCTCACTGCTGCCTCAACTTCCTGGGCTCAAGTGACCCTCCTGCATCAGCTTCCCAAGTAGCTGGGACTGC
AAGTGTGTACCACCACATCCAGCTAACATTTTTGGGGGTGGGAAGAGATGGGGTCTTACTATGTTGTCCAGGCTA
AGAGGTGGGATTTGAGCTGAGACTTGAATGCCCAGGAGTTAAATGTCTTAAGATATGGAGCAGGCCGTTAGAAAG
GAGGGAGCAGCAACTGGAAGGTAGAATAGTCTTATTCAAGGAATAAGAAGTATGTAATCACAGCATGGTGAAGAG
TTAGGAAGTGAAAAAAAAAAAAA

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FIGURE 540

MSRFLNVLRSWLVMVSI IAMGNTLQSFRDHTFLYEKLYTGKPNLVNGLQARTFGIWTLLSSVIRCLCAIDIHNKT
LYHITLWTFLLALGHFLSELFVYGTAAPTIGVLAPLMVASFSILGMLVGLRYLEVEPVSRQKKRN

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FIGURE 541

AGTACATCGACCCCGAGACCAAGAAGCACATCCCGTACCGCGAGCACAAGAGCCTGACGGGCACGGCGCGCTACA
TGAGCATCAACACGCACCTGGGCAAGGAGCAGAGCCGCCGCGACGACCTGGAGGCGCTGGGCCACATGTTTCATGT
ACTTCCTGCGCGGCAGCCTCCCCCTGGCAGGGGGCTCAAGGCCGACACGCTCAAGGAGCGGTACCAGAAGATCGGGG
ACACCAAACGCGCCACGCCCCATCGAGGTGCTCTGCGAGAACTTCCCAGAGGAGATGGCCACGTACCTGCGCTATG
TGCGGCGCCTGGACTTCTTCGAGAAGCCCGACTATGACTACCTGCGGAAGCTCTTCACCGACCTCTTCGACCGCA
GTGGCTTCGTGTTTCGACTATGAGTACGACTGGGCGGGAAGCCCCTGCCGACCCCCATCGGCACCGTCCACACCG
ACCTGCCCTCCCAGCCTCAGCTCCGGGACAAAACCCAGCCCCCTGAATCTTCTCCGTGCAGCCCCTTGGGGCGCG
ACCTTGTGCGAGGCCCTCGGGGCCCCACCCACAGCGGCCAGGGCCAGACCCTGGCTGGAAGCCAGAACGCAGACT
GCAGGGGCGCGCCTGGCTCAGGCGGCCCCACCCCCGGGACGTGGGGTCACTTCCTTCATGTAAGACTTTGGCCG
AAATTTCTACACCTGTGTCTAGTCCTCCCCTCCAAGAGCATTAACTATTTAAAACAAGGAAAAGAGGAAAAAAA
AACAGAGGCCCGCCCTACCCCACTCCTGCCCCCTCCGTTTCTTTGCTGAAGTGAGTAGTGTGATCCTGGAGGCCCC
CCGGCCTGGCCCCGCCCCGCCAGCCGCCCCCGTTAGCGTCATAAAGTCCAGCTTGTCTCCCTCGATCCAAAGGCC
GTTTTCTCGAGGGGAGGGCAGGCCCGGCCTGGAGGGGTGCTGTGGAGCTGTCTTGCCAGGCCCTCCTGGGAGGG
GGACAGGCATTGTTGCCAGGGGTGAGGCCGTGCCCCAGGCCTCCCCGAAACCAAAGGGGAAGGCAGGGGTGGGGC
CGTGGCTGAAGCCGGCTCCCCAACCAAAATGCTGCACCAAAGCTCGGGCGCCGCGGGCACGGCTGCTGCAGTCTC
TTCCCAGCCTGGCCCTGGCAAGGGGCGGGTGGGCGCTGCCAGGCGGGTGCTTCTCGACGCACTTGCTCCCGGAGG
CTGCGCCCCGGCGCCTGGAACCCGAGGTGGGAGGACCGGTTGGTGTACCCCTGCTCGGCCCTCAGCCCTGCCGCG
TGGGGCGCGTGGGCACGGAGCTTCCTGCCTCTCTGCTCCGACACCCGGCAAGCAGCCGGAGACAAAACGCCTTAA
AGCCCCCGGCCAGCCCTGCAGGTATATTGCAGGGGCCTGGGGGCGGCCCTGGACTGGCGGGCGGTTCCCCAGTG
GGGTGCCCTGGAGGCTGCCGGGCAGAGTGGAGCAGCTTGGGGCCGTGCCAGGGCGGTGGCTGTGAGTCTAGTTT
TTGCTTTACCAAGTGTACAGAAATGGCATTTTACGTTTCTCTGATGCTCCCTTGAAGCCATAGAAATTTAGGGGCTT
TTTTAAAAAAAATAAAAGAAAAATGAAACCAAAAAAAAAA

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FIGURE 542

MSINTHLGKEQSRDDLEALGHMFMYFLRGSLPWQGLKADTLKERYQKIGDTKRATPIEVLNENFPEEMATYLR
VRRLDFFEKPDYDYLRLKFTDLFDRSGFVFDYEYDWAGKPLPTPIGTVHTDLPSQPQLRDKTQPPSSPCSP
DLVRGPRGPPTAAQGQTLAGSQNADCRGAWLRRPHPRDVGSLPCKTLAEISTPVSSPPLQEH

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FIGURE 543

AGCTTTGGGGTTGTCCCTGGACTTGTCTTGGTTCCAGAACCTGACGACCCGGCGACGGCGACGTCTCTTTTGACT
AAAAGACAGTGTCCAGTGTCTCCAGCCTAGGAGTCTACGGGGACCGCCTCCCGCGCCGCCACCATGCCCAACTTCT
CTGGCAACTGGAAAATCATCCGATCGGAAAACCTTCGAGGAATTGCTCAAAGTGCTGGGGGTGAATGTGATGCTGA
GGAAGATTGCTGTGGCTGCAGCGTCCAAGCCAGCAGTGGAGATCAAACAGGAGGGGAGACACTTTCTACATCAAAA
CCTCCACCACCGTGGCGACCCACAGAGATTAACTTCAAGGTTGGGGAGGAGTTTGAGGAGCAGACTGTGGATGGGA
GGCCCTGTAAGAGCCTGGTGAAATGGGAGAGTGAGAATAAAATGGTCTGTGAGCAGAAGCTCCTGAAGGGAGAGG
GCCCCAAGACCTCGTGGACCAGAGAACTGACCAACGATGGGGAACTGATCCTGACCATGACGGCGGATGACGTTG
TGTGCACCAGGGTCTACGTCCGAGAGTGAAGTGGCCACAGGTAGAACCGCGGCCGAAGCCCACCACTGGCCATGCT
CACCGCCCTGCTTCACTGCCCCCTCCGTCCCACCCCTCCTTCTAGGATAGCGCTCCCCTTACCCCACTCACTTC
TGGGGGTCACCTGGGATGCCTCTTGCAGGGTCTTGCTTTCTTTGACCTCTTCTCTCCTCCCCTACACCAACAAAGA
GGAATGGCTGCAAGAGCCCAGATCACCCATTCCGGGTTCACTCCCCGCCTCCCCAAGTCAGCAGTCCTAGCCCCA
AACCAGCCCAGAGCAGGGTCTCTCTAAAGGGGACTTGAGGGCCTGAGCAGGAAAGACTGGCCCTCTAGCTTCTAC
CCTTTGTCCCTGTAGCCTATACAGTTTAGAATATTTATTTGTTAATTTATTAAATGCTTTAAAAAA

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FIGURE 544

MPNFSGNWKIIRSENFEELLKVLGVNVMLRKIAVAAAASKPAVEIKQEGDTFYIKTSTTVRTTEINFKVGEEFEEQ
TVDGRPCKSLVKWESENKMVCEQKLLKGEGPKTSWTRELTNDGELILMTADDVVCTRYYVRE

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FIGURE 545

GCACGCACTGGCCCCGGCGCCACCCGCACCCCTCCCCAGAGAGCACTGACACGGCTCCCGGGACCTCGGCAGGA
TGGAAAGAGAAGCTGAAGAAAACCAAGATCATCTTTGTGGTGGGTGGGCCTGGCTCAGGGAAGGGCACCCAGTGTG
AGAAGATCGTGCAGAAGTATGGCTACACCCACCTCTCCACCGGGGACCTCCTGCGGTCCGAGGTCTAGCTCAGGCT
CGGCCAGGGGCAAGAAGCTGTGGAATCATGGAGAAGGGGCAGCTGGTTCCACTGGAGACAGTGTGGACATGC
TCCGGGATGCCATGGTGGCCAAAGTCAATACTTCCAAAGGCTTCCTGATTGAIGGCTACCCGCGGGAGGTGCAGC
AAGGAGAAGAGTTTGGAGCGACGGATTGGACAGCCACACTGCTGCTGTATGTGGACGCAGGCCCTGAGACCATGA
CCCAGCGGCTCTTGAAACGTGGAGAGACCAGCGGGCGTGTGGACGACAATGAGGAGACCATCAAAAAGCGGCTGG
AGACCTATTACAAGGCCACAGAACCCGTCATCGCCTTCTATGAGAAACGTGGCATTGTGCGCAAGGTCAACGCTG
AGGGCTCCGTGGACAGTGTCTTCTCCAGGTCTGCACCCACCTGGACGCCCTAAAG**TAG**CAACGCTGGAGCCGCT
TCCCCAGCTCAGAGCCCCGCCCCACCCGTCCTGATTAGAGGTCTCTCTGGCCTGAGCGCAGCGCCTCCACCCTG
CCCTGCTGAGCACAGACGGAGGAAGCCGCTTATCTGTTTTTCATGGACAGCTGAGCACTAAAGGAATTTCTAAGG
ACATTTGGTTTTACTGCTTTTTCTCTGCTTCCAGTTGGAGTTGATTCATGTGCTTGTGCCTACCTGGCCGCAAGT
CCCCAGCCCCCTCAACCCTCCGTTCTCTCCTCAGCCTCCCTTTGCCAGCCACCCCTCCTCTAGCTCTGGTGGGAGGC
CCGGGGCCCTTCTCGCACAGGGCATGCCTGGCCTGAGGACCCGGCGCTGAGTGGCGGGGGCCCTGCTCCGAGGG
GCTCATGTTTCAGGCAGAACCGGTCCAGCCTGGGCTCCTCTGCATCTTGCTCTGTGCCTTGGCCCTGACCCCCAT
CGCTCTGAGCATATGTTCCATGCCTGCCTTGCCGGGGCTGGACTGCACAGGCAGCAAGGTCATGGTCTGAGTGG
GGCTTCTGGGCAGTTGGGGCGGGCCACGCCAGCTGGCCAGTGGGTAGTGAATTGGCTTCCTTGACGCGAGAGG
CTCTGAGGGTCTGAAAAGGGCATCTCAATGGCATGGGTGGGTGGGGAGTCAGTCATGTCACTGAAATTGAATGGG
GGAGGCCCAATGAGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAAGCTGAGGCAGGAGGATCACCTGAGGTC
AGGAGTTCGAGAGCAGCCTGGCCAACATGGCAAAACCCCTTATTTACTAAAAATACAAAAACTTAGCCGGGCATG
GTGGCATGTGCCTGTATTCCCAGCTACTCATGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGTGGAGCTTG
CAATGAGCCAAGATTGCGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCCGTCTCAAAAAAAAAAAAAAAAA
AAAAAAGAAATTAATTGGGGGAGTCATGGTCAGGGGTGAGACCTGAAGGACCTCCCCCTGTGTGGCCCTGGACAC
AGCCACCCCTCTGTGAGCCGTTTCCAATTCTAAAACAGACTCAATGTCCCCCTCACCCACCTCAAGGTCAGGA
TGCGAACACACTGAGTGAGGAGTGGACGCTGTCCATTGCCACGGCCATGAGGGCTGGAGACCAGAACAGCATGGC
CCGAAGCGTGCGGGGCCCCGGATGACTTGGGGACACCCCAAGATCCCCCTGGGGAGAACCCTTCTGCGCGCTTTC
ATTTTTTGACCTCATCACTGAGAAAGGCTCAATTTGGTGCTCACGTGTCCTTAACACCTGATCTGGCCCAAGCTG
CGTGCCCTTTAAGCCAAGAGAGCCTCTTGTGGACCCCGCCTGCCCGAATGAAATCCGAACAGTTGGGGCTGTTAT
GGCAAGTGGGGCTGGTTTTTTCATTTCCATTGGTTATTTAAAGTTTCTTTAAAAATAACGATTTTAAGTTATAAA
AGGTGAATCTATTGAAAGAAGAACATCAAAGAAATAAACAGGAGTTCAGCGGAGTAGCAGAAGACAAGGCATGTA
GGGGGAGCCATTCTGTCCAG

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FIGURE 546

MEEKLKKTKIIFVVGGPGSGKGTQCEKIVQKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQLVPLETVLDM
LRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDAGPETMTQRLLKRGETSGRVDDNEETIKKRL
ETYYKATEPVIAFYEKRGIVRKVNAEGSVDSVFSQVCTHLDALK

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FIGURE 547

CGGTTTCCTCCCCATCCCCTTGA CTCTCCCCTCCCAGCCCTCGCTCTCTCGCTCGCCCTCAGCGCGGCCCCCGC
CATGACGGAGGCGGGTGCCGGTGCCGTTGCCGCCGCTGCCGTTCGCAGGGGGGGAGTCGGGTTCCCGAGAAAGTAGC
TTGATGAGTGTCCAAAGTAGCAGTGGAAGTTTGAGAGGGGCCGCCATCTTGGTCCCAGCTCTCCACGTCTCCAACC
CCGGGCTCGGCGGCGGGGCCAGGTCCCTGCTGAATCACACGCCGCCATCCGGGAGGCCAGGGAAGGTGCAATG
GATGAGCTTCATAGTCTGGATCCAAGAAGGCAAGAGTTATTGGAAGCTAGATTTACTGGAGTTGCAAGTGGGAGC
ACTGGAAGTACGGGCAGTTGCAGTGTTGGTGCTAAAGCCACAACAAATAACGAAAGCTCTAATCACAGTTTGGGA
AGCTTGGGATCTTTAAGTGACAAAGAATCAGAGACACCGGAGAAGAAACAATCGGAATCATCCAGGGGAAGAAAG
AGAAAAGCAGAAAACCAGAATGAAAGTAGTCAGGGAAAAAGTATTGGGGGACGTGGCCACAAAATTAGCGACTAT
TTTGAATACCAGGGTGGAATGGCTCAAGTCCAGTAAGAGGCATACCTCCTGCAATCCGTTCTCCTCAAAATTCA
CATTACATTCCACTCCTTCTCATCTGTTTCGACCGAATAGCCCTTCTCCTACTGCATTAGCATTGTTGGGACCAC
CCTATTGTACAACCAAGCAATTATCCTTTAAAAATTATTAGACTGATCTCACAATGCTGAAATTAGCAGCATT
GAAAGTAATAAAATCCAGGACCTGGAAGAAGGAGGGACGTATAGATGATTTGCTCAGGGCTAACTGTGATCTC
AGACGGCAAATAGATGAACAACAAAAATTACTTGAAAAATACAAAGAACGATTAAATAAGTGCATATCAATGAGC
AAGAACTTCTTATTGAAAAGAGTACACAAGAAAAGCTGTCAAGCAGAGAGAAGAGTATGCAAGATCGATTACGC
CTCGGGCACTTTACAACAGTTAGACATGGCGCTTCATTTACTGAACAATGGACAGATGGTTTTGCATTTCAGAAT
CTTGTAAGCAACAAGAATGGGTGAATCAGCAAAGGGAAGATATTGAAAGGCAAAGGAACTTCTAGCCAAACGC
AAACCTCCCACAGCTAATAATTCTCAGGCACCTCTACCAATTCTGAACCAAAACAAAGGAAAAACAAAGCAGTC
AATGGAGCAGAGAATGATCCCTTTGTTAGACCAAAATTACCACAACCTGTTGACTTTGGCAGAATATCATGAACAG
GAAGAAATTTTCAAACCTTAGACTAGGACATCTCAAAAAGGAAGAGGCAGAAATCCAGGCAGAACTTGAACGTTTG
GAAAAGAGTCAGAAATCTTACATACGTGAGCTGAAAAAGAATAACAATGAAGATAATTCACAGTTCAAAGATCAC
CCAACATTAAATGAAAGATATTTATTACTTTCATCTGCTTGGTAGAGGTGGCTTTAGTGAAGTGTATAAGGCTTTT
GACCTTTATGAACAAAGATATGCTGCTGTGAAGATACATCAGCTTAATAAAAGCTGGAGAGATGAGAAGAAAGAA
AACTACCACAAACATGCCTGCAGAGAGTATAGAATACACAAAGAAGCTGGATCACCCAGAAATAGTTAAACTCTAT
GATTATTTCTCCTTGGATACAGATACGTTTTGTACAGTGTTAGAATACTGTGAAGGCAATGACTTGGATTCTAT
CTGAAGCAACACAAGTTAATGTCAGAGAAAGAAGCTCGGTCTATTGTAATGCAGATTGTAAATGCACCTAAGATAT
CTCAATGAGATCAAACCCCTATTATACATTATGATCTTAAGCCAGGAAACATCCTACTGGTAGATGGAACAGCA
TGTGGTGAAATCAAATCACTGATTTTGGTCTGTCCAAGATTATGGATGATGATAGCTATGGTGTAGATGGAATG
GATCTAACTTCCCAGGGGGCAGGCACCTACTGGTATTTACCTCCTGAGTGTTTTGTAGTTGGAAGAGCCACCA
AAGATTTCCAACAAGGTTGATGTATGGTCGGTTGGAGTCATCTTCTTTCAGTGTCTTTATGGTAGAAAGCCATTT
GGTCACAATCAATCTCAACAAGACATTCTTCAAGAAAATACAATATTAAAGCCACAGAAGTCCAGTTCCCTGTA
AAACCGGTTGTAAGCAGTGAAGCCAAGGCATTTATAAGACGCTGTTTGGCATATCGAAAAGAAGATCGATTTGAT
GTGCACCAGCTGGCAAATGACCCATACCTTCTCCACACATGAGAAGATCAAATTCCTCAGGAAACCTACACATG
GCTGGGCTGACAGCATCCCCTACACCCCTTCTTCAAGCATAATTACTTACTTGACTTTTCTCCAAGATTGGCATG
ATATCTTTGAATTTGCTTCCAGATGCACACTTAAGTTTGAGAGCATTGAGTGTTTTGTTTTCTTTTTCTTTTTT
TTTTTTTTTTTTTTTTTACACAAGACGTGGTTAAAGAACTGTTTGTGACTGAAGTTTCTCATAGTGTCAATTGGTAT
GAGAGAGGATCATGGACAATGAATAAATGCACACTTCTGACTATAATTTTGAGCAGTGAAGGAAGGATGACTGCC
TGTTACACAGAAACAGGAATACCATGTTAAGATAGAGGAAAAAAAAAAAA

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FIGURE 548

MSVQSSSGSLEGPPSWSQLSTSPTPGSAAAAARSLNHTPPSGRPREGAMDELHSLDPRRQELLEAREFTGVASGST
GSTGSCSVGAKASTNNNESSNHSFGSLESLSKESSETPEKKQSESSRGRKRKAENQNESSQGFPNLPVFQSLAYWE
MGRTAGGKSIGGRGHKISDYFEYQGGNGSSPVRGIPPAIRSPQNSHSHSTPSSSVRPNSPSPALAFGDHP IVQP
KQLSFKIIQTDLTMLKLAALLESNKILDLEKKEGRIDDLRANCDLRRQIDEQQKLLDKYKERLNKCISMSKKLLI
EKSTQEKLSREKSMQDRRLRLGHFTTVRHGASFTEQWTDGFQNLVKQQEWVNQQREDIERQRKLLAKRKPPTA
NNSQAPSTNSEPKQRKNKAVNGAENDPFVRPNLPQLLTLAEYHEQEEIFKLRLGHLKKEEAGIQAELERLERVRN
LHIRELKRIHNEDNSQFKDHPTLNERYLLLHLLGRGGFSEVDKAFDLSEQRYAAVKIHQLNKS WRDEKKENYHKK
ACREYRIHKELDHPRIVKLYDYFSLD TDTFCTVLEYCEGNDLDFY LKQHKLMSEKEARSIVMQIVNALRYLNEIK
PPIIH YDLKPGNILLVDGTACGEIKITDFGLSKIMDDDSYGVDGMVLTSQGAGTYWYLPPECFVVGKEPPKISNK
VDVWSVG VIFYQCLYGRKPF GHNQSQQDILQENTILKATEVQFPVKPVVSSEAKAFIRRC LAYRKEDRF DVHQLA
CDPYLLPHMRRSNSSGNLHMAGLTASPTPPSSSIITY

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FIGURE 549

TCGGCCGAGCCCAGAGACAGCCAGTTCTCTCCCGCCGCGCCGGGCCGCGTGCCGCTCGCTCCCCGGCCCGTGGCG
CCTCCGGGCCAGACGCGCTGCAGCCTCCAGCCCCGCGCAAGCGGGCGGGGCGGCCGCGCCACCCCCGGCCCCGCG
CCAGCAGCCCCCTCGCCGCGCGTCCAGCGTTCCCGGCCAGCAGCCTCCCCATACGCAGTCCTGCTGGACCGCCCCG
TCGCGCCCCCCTCTGAACTCAAGTCACCGTGGAGCTCCGCCGCCCGAAACTTTACGCGAGCGGGAAATATG

GGATGTATAAAATCAAAAGGGAAAGACAGCTTGAGTGACGATGGAGTAGATTTGAAGACTCAACCAGTACGTAAT
ACTGAAAGAACTATTTATGTGAGAGATCCAACGTCCAATAAACAGCAAAGGCCAGTTCCAGAATCTCAGCTTTTA
CCTGGACAGAGGTTTTCAAACTAAAGATCCAGAGGAACAAGGAGACATTGTGGTAGCCTTGTAACCCCTATGATGGC
ATCCACCCGGACGACTTGTCTTTCAAGAAAGGAGAGAAGATGAAAGTCCTGGAGGAGCATGGAGAATGGTGGAAA
GCAAAGTCCCTTTTAACAAAAAAGAAGGCTTCATCCCCAGCAACTATGTGGCCAAACTCAACACCTTAGAAACA
GAAGAGTGGTTTTTCAAGGATATAACCAGGAAGGACGCAGAAAGGCAGCTTTTGGCACCAGGAAATAGCGCTGGA
GCTTTCCTTATTAGAGAAAGTGAAACATTAAGGAAGCTTCTCTCTGTCTGTCTGTCAGAGACTTTGACCCCTGTGCAT
GGTGATGTTATTAAGCACTACAAAATTAGAAGTCTGGATAATGGGGGCTATTACATCTCTCCACGAATCACTTTT
CCCTGTATCAGCGACATGATTAAACATTACCAAAAGCAGGCAGATGGCTTGTGCAGAAGATTGGAGAAGGCTTGT
ATTAGTCCCAAGCCACAGAAGCCATGGGATAAAGATGCCTGGGAGATCCCCGGGAGTCCATCAAGTTGGTGAAA
AGGCTTGGCGCTGGGCAGTTTGGGGAAGTCTGGATGGGTTACTATAACAACAGTACCAAGGTGGCTGTGAAAACC
CTGAAGCCAGGAAGTATGTCTGTGCAAGCCTTCCTGGAAGAAGCCAACCTCATGAAGACCCTGCAGCATGACAAG
CTCGTGAGGCTCTACGCTGTGGTCACCAGGGAGGAGCCCCATTTACATCATCACCGAGTACATGGCCAAGGGCAGT
TTGCTGGATTTCTGAAGAGCGATGAAGGTGGCAAAGTGCTGCTTCCAAAGCTCATTGACTTTTTCTGCTCAGATT
GCAGAGGGAATGGCATACATCGAGCGGAAGAACTACATTCACCGGGACCTGCGAGCAGCTAATGTTCTGGTCTCC
GAGTCACTAATGTGCAAAATTGCAGATTTTGGCCTTGCTAGAGTAATTGAAGATAATGAGTACACAGCAAGGGAA
GGTGCTAAGTTCCTATTAAGTGGACGGCTCCAGAAGCAATCAACTTTGGATGTTTCACTATTAAGTCTGATGTG
TGGTCCTTTGGAAATCCTCCTATACGAAATTGTACCTATGGGAAAATTCCCTACCCAGGGAGAACTAATGCCGAC
GTGATGACCGCCCTGTCCCAGGGCTACAGGATGCCCCGTGTGGAGAAGTCCCAGATGAGCTCTATGACATTATG
AAAATGTGCTGGAAAGAAAAGGCAGAAGAGAGACCAACGTTTGACTACTTACAGAGCGTCCTGGATGATTTCTAC
ACAGCCACGGAAGGGCAATACCAGCAGCAGCCTTAGAGCACAGGGAGACCCGTCCATTTGGCAGGGGTGGCTGCC
TCATTTAGAGAGGAAAAGTAACCATCACTGGTTGCACTTATGATTTTCATGTGCGGGGATCATCTGCCGTGCCCTGG
ATCCTGAAATAGAGGCTAAATTACTCAGGAAGAACACCCCTCTAAATGGGAAAGTATTCTGTACTCTTAGATGGAT
TCTCCACTCAGTTGCAACTTGGACTTGTCTCAGCAGCTGGTAATCTTGCTCTGCTTGACAACATCTGAGTGCAG
CCGTTTGAGAAGAAAACATCTATTCTCTCAAAAATGCACCCAACCTAGCTCTATGTTTACAAATGGACATAGGAC
TCAAAGTTTCAGAGACCATTGCAATGAATCCCCAATAATTGCAGAACTAAACTCATTATATAAAGCTAAAAATAACC
GGATATATACATAGCATGACATTTCTTTGTGCTTTGGCTTACTTGTTT

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FIGURE 550

MGCIKSKGKDSLSDDGVDLKTQPVNRNTERTIYVRDPTSNKQQRVPESQLLPGQRFQTKDP EEQGDIVVALYPYD
GIHPDDL SFKKGEKMKVLEEHGEWWKAKSL LTKKEGFIPSNYVAKLNTLETEEWFFKDITRKDAERQL LAPGNSA
GAFLIRESETLKGSFSLSVRDFDPVHGDVIKHYKIRSLDNGGYYISPRITFPCISDMIKHYQKQADGLCRRLEKA
CISPKPQKPWDKDAWEIPRESIKLVKRLGAGQFGEVWMGYYNNSTKVAVKTLKPGTMSVQAFLEEANLMKTLQHD
KLVRLYAVVTREEPIYIITEYMAKGSLLDFLKSDEGGKVLLPKLIDFSAQIAEGMAYIERKNYIHRDLRAANVLV
SESLMCKIADFGLARVIEDNEYTAREGAKFPIKWTAPEAINFGCFTIKSDVWSFGILLYEIVTYGKIPYPGRNA
DVMTALSQGYRMPRVENCPELYDIMKMCWKEKAEERP TFDYLQSVLDDFYTATEGQYQQQP

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FIGURE 551

GAATTCTGCAGCTCAGCAGCCGCCGCCAGAGCAGGACGAACCGCCAATCGCAAGGCACCTCTGAGAACTTCAGG
ATGCAGATGTCTCCAGCCCTCACCTGCCTAGTCCTGGGCCTGGCCCTTGTCCTTTGGTGAAGGGTCTGCTGTGCAC
CATCCCCCATCCTACGTGGCCACCTGGCCTCAGACTTCGGGGTGAGGGTGTTTCAGCAGGTGGCGCAGGCCCTCC
AAGGACCGCAACGTGGTTTTCTCACCTATGGGGTGCCCTCGGTGTTGGCCATGCTCCAGCTGACAACAGGAGGA
GAAACCCAGCAGCAGATTCAAGCAGCTATGGGATTCAAGATTGATGACAAGGGCATGGCCCCCGCCCTCCGGCAT
CTGTACAAGGAGCTCATGGGGCCATGGAACAAGGATGAGATCAGCACCACAGACGCGATCTTCGTCCAGCGGGAT
CTGAAGCTGGTCCAGGGCTTCATGCCCCACTTCTTCAGGCTGTTCCGGAGCACGGTCAAGCAAGTGGACTTTTCA
GAGGTGGAGAGAGCCAGATTATCATCAATGACTGGGTGAAGACACACAAAAGGTATGATCAGCAACTTGCTT
GGGAAAGGAGCCGTGGACCAGCTGACACGGCTGGTGTGATGCCCTCTACTTCAACGGCCAGTGGAAGACT
CCCTTCCCCGACTCCAGCACCCACCGCCGCTCTTCCACAAATCAGACGGCAGCACTGTCTCTGTGCCCATGATG
GCTCAGACCAACAAGTTCAACTATACTGAGTTTACCACGCCCCTATGAAAAAGAGGTGCCTCTCTGTGCCCTACCAAC
TACCACGGGGACACCCTCAGCATGTTTATTGCTGCCCTTATGAAAAAGAGGTGCCTCTCTGTGCCCTACCAAC
ATTCTGAGTGCCAGCTCATCAGCCACTGGAAAGGCAACATGACCAGGCTGCCCCGCTCCTGGTTCTGCCAAG
TTCTCCCTGGAGACTGAAGTCGACCTCAGGAAGCCCCTAGAGAACCTGGGAATGACCGACATGTTTCAGACAGTTT
CAGGCTGACTTCACGAGTCTTTCAGACCAAGAGCCTCTCCACGTCGCGCAGGCGCTGCAGAAAGTGAAGATCGAG
GTGAACGAGAGTGGCACGGTGGCCTCCTCATCCACAGCTGTCATAGTCTCAGCCCGCATGGCCCCCGAGGAGATC
ATCATGGACAGACCCTTCTCTTTGTGGTCCGGCACAAACCCACAGGAACAGTCCTTTTTCATGGGCCAAGTGATG
GAACCC**TGA**CCCTGGGGAAAGACGCCTTCATCTGGGACAAAACCTGGAGATGCATCGGGAAAGAAGAAACTCCGAA
GAAAAAGAAATTTTAGTGTTAATGACTCTTTCTGAAGGAAGAGAAGACATTTGCCTTTTGTAAAGATGGTAAACC
AGATCTGTCTCCAAGACCTTGGCCTCTCCTTGGAGGACCTTTAGGTCAAACCTCCCTAGTCTCCACCTGAGACCCT
GGGAGAGAAGTTTGAAGCACAACCTCCCTTAAGGTCTCCAAACCAGACGGTGACGCCTGCGGGACCATCTGGGGCA
CCTGCTTCCACCCGCTCTCTCTGCCCACTCGGGTCTGCAGACCTGGTTCCCACTGAGGCCCTTTGCAGGATGGAAC
TACGGGGCTTACAGGAGCTTTTGTGTGCCTGGTAGAAACTATTTCTGTTCCAGTCACATTGCCATCACTCTTGTA
CTGCCTGCCACCGCGGAGGAGGCTGGTGACAGGCCAAAGGCCAGTGGAAGAAACACCCTTTTCATCTCAGAGTCCA
CTGTGGCACTGGCCACCCCTCCCCAGTACAGGGGTGCTGCAGGTGGCAGAGTGAATGTCCCCATCATGTGGCCC
AACTCTCCTGGCCTGGCCATCTCCCTCCCCAGAAACAGTGTGCATGGGTTATTTTGGAGTGTAGGTGACTTGTTT
ACTCATTGAAGCAGATTTCTGCTTCCTTTTATTTTATAGGAATAGAGGAAGAAATGTCAGATGCGTGCCCAGCT
CTTACCCCCCAATCTCTTGGTGGGGAGGGGTGTACCTAAATATTTATCATATCCTTGCCCTTGAGTGCTTGTTA
GAGAGAAAGAGAACTACTAAGGAAAATAATATTATTTAACTCGCTCCTAGTGTTTCTTTGTGGTCTGTGTCACC
GTATCTCAGGAAGTCCAGCCACTTGACTGGCACACACCCCTCCGACATCCAGCGTGACGGAGCCACACTGCCA
CCTTGTGGCCGCTGAGACCCTCGCGCCCCCGCGCCCCCGCGCCCTCTTTTTCCCTTGATGGAAATTGACC
ATACAATTTTCATCCTCCTTCAGGGGATCAAAAGGACGGAGTGGGGGGACAGAGACTCAGATGAGGACAGAGTGGT
TTCCAATGTGTTCAATAGATTTAGGAGCAGAAATGCAAGGGGCTGCATGACCTACCAGGACAGAACTTTCCCCAA
TTACAGGGTGACTCACAGCCGCTTGGTGAATCAATGTGTCATTTCGGCTGCTGTGTGTGAGCAGTGGA
CACGTGAGGGGGGGGTGGGTGAGAGAGACAGGCAGCTCGGATTCAACTACCTTAGATAATATTTCTGAAAACCTA
CCAGCCAGAGGGTAGGGCACAAAGATGGATGTAATGCACTTTGGGAGGCCAAGGCGGGAGGATTGCTTGAGCCCA
GGAGTTCAAGACCAGCCTGGGCAACATAACCAAGACCCCGTCTCTTTAAAAATATATATATTTTAAATATACTTA
AATATATATTTCTAATATCTTTAAATATATATATATATTTTAAAGACCAATTTATGGGAGAATTGCACACAGATG
TGAAATGAATGTAATCTAATAGAAGC

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FIGURE 552

MQMSPALTCLVLGLALVFGEGSAVHHPPSYVAHLASDFGVRVFQQVAQASKDRNVVFSPYGVASVLAMLQLTTGG
ETQQQIQAAAMGFKIDDKGMALRHLYKELMGPNKDEISTDAIFVQRDLKLVQGFMPHFFRLFRSTVKQVDFS
EVERARFIINDWVKTHTKGMISNLLGKGAVDQLTRLVLVNALYFNGQWKTPFPDSSTHRRLFHKSDGSTVSVPM
AQTNKFNYTEFTTPDGHYYDILELPYHGDTLMSFIAAPYEKEVPLSALTNILSAQLISHWKGNMTRLPRLLVLPK
FSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVAQALQVKIEVNESGTVASSSTAVIVSARMAPEEI
IMDRPFLEFVVRHNPTGTVLFMGQVMEP

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FIGURE 553

CTTCGGTCTGCTGTAGTGCCCTTCTGCGCCAGGCCCGGTTCAATCAGCGGCCACAACCTGTCTAGGGCTCAGACAC
CACCAGCCAATGAGGGAGGGCACGTGGAGCCGCGTCTGGGCTCGCGGCTCCTGACCAATGGGGGAAGTGGCATGTG
GGAGGGCGCCGGGGTTCCCCCGCCAATGGGGAGCTACGGCGCGCGGCCGGGACTTGAGAGCGGTGCGGCGCGGC
GGGTGCGGTTTCACTCGGTGCGGCGGCGGCAGCGGAGGAGGAGGAGGAGGAGGAGGATGAGGAGGATGAGGAGGATG
TGGGCCACGCAGGGGCTGGCGGTGCGCGTGGCTCTGAGCGTGCTGCCGGGCAGCCGGGCGCTGCGGCCGGGCGAC
TGCGAAGTTTGTATTTCTTATCTGGGAAGATTTTACCAGGACCTCAAAGACAGAGATGTCACATTCTCACCAGCC
ACTATTGAAAACGAACTTATAAAGTTCTGCCGGAAGCAAGAGGCAAAGAGAATCGGTTGTGCTACTATATCGGG
GCCACAGATGATGCAGCCACCAAAATCATCAATGAGGTATCAAAGCCTCTGGCCCACCACATCCCTGTGGAGAAG
ATCTGTGAGAAGCTTAAGAAGAAGGACAGCCAGATATGTGAGCTTAAGTATGACAAGCAGATCGACCTGAGCACA
GTGGACCTGAAGAAGCTCCGAGTTAAAGAGCTGAAGAAGATTCTGGATGACTGGGGGGAGACATGCAAAGGCTGT
GCAGAAAAGTCTGACTACATCCGGAAGATAAATGAACTGATGCCTAAATATGCCCCAAGGCAGCCAGTGCACCG
ACCGATTTGTAGTCTGCTCAATCTCTGTTGCACCTGAGGGGGAAAAACAGTTCAACTGCTTACTCCCAAAACAG
CCTTTTTGTAATTTATTTTTTAAGTGGGCTCCTGACAATACTGTATCAGATGTGAAGCCTGGAGCTTTCCTGATG
ATGCTGGCCCTACAGTACCCCATGAGGGGATTCCCTTCCTTCTGTTGCTGGTGTACTCTAGGACTTCAAAGTGT
GTCTGGGATTTTTTTTATTAAAGAAAAAAAATTTCTAGCTGTCAAAAAAAAAA

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FIGURE 554

MGKWHVGGRRGSPRQWGATARGRDLEAVRRGGCGSVGRRRQRRRRRRRRMRRMRMWATQGLAVRVALSVLPGSR
ALRPGDCEVCISYLGRFYQDLKDRDVTFSPATIENELIKFCREARGKENRLCYIIGATDDAATKIINEVSKPLAH
HIPVEKICEKLKKKDSQICELKYDKQIDLSTVDLKKLRVKELKKILDDWGETCKGCAEKSDYIRKINELMPKYAP
KAASAPTDL

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FIGURE 555

AGCAGAGGACTTTTTAGCTGCTCACTGGCCCCGCTTGTCTGACCGACTCATCCGCCCCGCGACCCCTAATCCCCTC
TGCTTGCCCCAAG**ATG**CTGAAGCCAGCCCTGGAGCCCCGAGGGGGCTTCTCCTTCGAGAACTGCCAAAGAAATGC
ATCATTGGAACGCGTCCTCCCGGGGCTCAAGGTCCCTCACGCACGCAAGACCGGGACCACCATCGCGGGCCTGGT
GTTCCAAGACGGGGTCATTCTGGGCGCCGATACGCGAGCCACTAACGATTTCGGTCGTGGCGGACAAGAGCTGCGA
GAAGATCCACTTCATCGCCCCCAAATCTACTGCTGTGGGGCTGGAGTAGCCGCGGACGCCGAGATGACCACACG
GATGGTGGCGTCCAAGATGGAGCTACACGCGTTATCTACGGGCCGCGAGCCCCGCGTGGCCACGGTCACTCGCAT
CCTGCGCCAGACGCTCTTCAGGTACCAGGGCCACGTGGGTGCATCGCTGATCGTGGGCGGGCTAGACCTGACTGG
ACCGCAGCTCTACGGCGTGCATCCCCATGGCTCCTACAGCCGTCTGCCCTTCACAGCCCTGGGCTCTGGTCAGGA
CGCGGCCCTGGCGGTGCTAGAAGACCGGTTCCAGCCGAACATGACGCTGGAGGCTGCTCAGGGGCTGCTGGTGGA
AGCCGTCACCGCCGGGATCTTGGGTGACCTGGGCTCCGGGGGCAATGTGGACGCATGTGTGATCACAAAGACTGG
CGCCAAGCTGCTGCGGACACTGAGCTCACCCACAGAGCCCGTGAAGAGGTCTGGCCGCTACCACTTTGTGCCTGG
AACCACAGCTGTCCTGACCCAGACAGTGAAGCCACTAACCCCTGGAGCTAGTGGAGGAACTGTGCAGGCTATGGA
GGTGGAG**TAA**GCTGAGGCTTAGAGCTTGGAACAAGGGGAATAAACCCAGAAAATACAGTTAAAAAAAAAAAAAA
CAAAAAAAAAAAAAAAAAAAAA

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FIGURE 556

MLKPALEPRGGFSFENCQRNASLERVLPGLKVPHARKTGTTIAGLVFQDGVILGADTRATNDSVVADKSCEKIH
IAPKIYCCGAGVAADAEMTTRMVASKMELHALSTGREPRVATVTRILRQTLFRYQGHVGASLIVGGVDLTGPQLY
GVHPHGSYSRLPFTALGSGQDAALAVLEDRFQPNMTLEAAQGLLVEAVTAGILGDLGSGGNVDACVITKTGAKLL
RTLSSPTEPVKRSGRYHFVPGTTAVLTQTVKPLTLELVEETVQAMEVE

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FIGURE 557

CGGAGCCGCCCGCTGAGGTCAGAAGGAGGCGTCTGCGCTGATCGGGTCCGCCGCGGCCAGAGCCAGAGTCGCAG
CCGAGGGGAGCCGGGGCCGGAGCCCGAGCCCGAGCCGAGCCGAGCCGAGCGAGCGGGCGGAGACCGTGCCCCG
CCTCGGCCCCGCGCCGCCGCGGCCAGGCCCCGGC**ATCG**GAGGAGGAGTGCCGGGTGCTCTCCATACAGAGCCACGTC
ATCCGCGGCTACGTGGGCAACCGGGCGGCCACGTTCCCGCTGCAGGTTTTTGGGATTTGAGATTGACGCGGTGAAC
TCTGTCCAGTTTTCAAACCACACAGGCTATGCCCCACTGGAAGGGCCAAGTGCTGAATTCAGATGAGCTCCAGGAG
TTGTACGAAGGCCTGAGGCTGAACAACATGAATAAATATGACTACGTGCTCACAGGTTATACGAGGGACAAGTCG
TTCCTGGCCATGGTGGTGGACATTGTGCAGGAGCTGAAGCAGCAGAACCCAGGCTGGTGTACGTGTGTGATCCA
GTCTTGGGTGACAAGTGGGACGGCGAAGGCTCGATGTACGTCCCGGAGGACCTCCTTCCCGTCTACAAAGAAAA
GTGGTGCCGCTTGACAGACATTATCACGCCCAACCAGTTTGAGGCCGAGTTACTGAGTGGCCGGAAGATCCACAGC
CAGGAGGAAGCCTTGCGGGTGATGGACATGCTGCACTCTATGGGCCCCGACACCGTGGTCATCACCAGCTCCGAC
CTGCCCTCCCCGCAGGGCAGCAACTACCTGATTGTGCTGGGGAGTCAGAGGAGGAGGAATCCCGCTGGCTCCGTG
GTGATGGAACGCATCCGGATGGACATTCGCAAAGTGGACGCCGTCTTTGTGGGCACTGGGGACCTGTTTGCTGCC
ATGCTCCTGGCGTGGACACACAAGCACCCCAATAACCTCAAGGTGGCCTGTGAGAAGACCGTGTCTACCTTGCAC
CACGTTCTGCAGAGGACCATCCAGTGTGCAAAAGCCCAGGCCGGGGAAGGAGTGAGGCCAGCCCCATGCAGCTG
GAGCTGCGGATGGTGCAGAGCAAAAGGGACATCGAGGACCCAGAGATCGTCGTCCAGGCCACGGTGCTG**TGA**GGG
CCCCGCCGCTTGCCCGTGACACGCAGCGCGTTGGTGTCTCCGTGTTTGTCCCTGTGAAAACATGTAACGTCTGCC
TTAGAGCCATGACCGAACTTGATATTTTTTTCTTTCATGAGTGTCGGCATCTGCTGGTCTTCATTGTGAAACG
TGCCAGTCGTGCTTTGTGAAAAATAACAAAGTGGTCACAAAAAAAAAAAAAAAAAAAA

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FIGURE 558

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKQVLNSDELQELYEGLRLNNMN
KYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVVPLADIITPN
QFEAELLSGRKIHSQEEALRVMDMLHSMGPD TVVITSSDLPS PQGSNYLIVLGSQRRRNPA GSVVMERIRMDIRK
VDAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDI
EDPEIVVQATVL

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FIGURE 559

GCAGCCAGGCGCGCACTGCACAGCTCTCTTCTCTCGCCGCCGCCGAGCGCACCCCTTCAGCCCGCGCGCCGGCCG
TGAGTCCTCGGTGCTCGCCCGCCGGCCAGACAAACAGCCCGCCCGACCCCGTCCCGACCCCTGGCCGCCCCGAGCG
GAGCCTGGAGCAAAATGATGCTTCAACACCCAGGCCAGGTCTCTGCCTCGGAAGTGAGTGCTTCTGCCATCGTCC
CCTGCCTGTCCCTCCTGGGTCACTGGTGTGTTGAGGATTTTGCTAACCTGACGCCCTTTGTCAAGGAAGAGCTGA
GGTTTGCCATCCAGAACAAGCACCTCTGCCACCCGGATGTCTCTGCGCTGGAATCAGTCAGTGTTCAGCGACAGAC
CCCTCGGGGTGTCCATCACAAAAGCCGAGGTAGCCCCCTGAAGAAGATGAAAGGAAAAAGAGGCGACGAGAAAAGAA
ATAAGATTGCAGCTGCAAAGTGCCGAAACAAGAAGAAGGAGAAGACGGAGTGCCCTGCAGCTTCAGTATTAGCAGA
GCCACAGGCCCGCTCTGTGGCATCACAGGGTTTCTCTGAAGAAGAGGGTCTGCATTTTCTAAACCCAGTGCTG
CTCTCCCATCTCCCATCTTCTCTCGCAGCTTGATGAGCCCCGGTGTGTCCAGGAGTCGGAGAAGCTGGAAAGT
GTGAATGCTGAAGTGAAGGCTCAGATTGAGGAGCTCAAGAACGAGAAGCAGCATTGATATACATGCTCAACCTT
CATCGGCCACGTGTATTGTCCGGGCTCAGAATGGGAGGACTCCAGAAGATGAGAGAAACCTCTTTATCCAACAG
ATAAAGAAGGAACATTGCAGAGCTAAGCAGTCGTGGTATGGGGGCGACTGGGGAGTCTCATTGAATCCTCATT
TTATACCCAAAACCTGAAGCCATTGGAGAGCTGTCTTCTGTGTACCTCTAGAATCCAGCAGCAGAGAACCAT
CAAGGCGGGAGGGCCTGCAGTGATTCAGCAGGCCCTTCCCATTCTGCCCCAGAGTGGGTCTTGGACCAGGGCAAG
TGCATCTTTGCCCTCAACTCCAGGATTTAGGCCTTAACACACTGGCCATTCTTATGTTCCAGATGGCCCCCAGCTG
GTGTCTGCCCCGCTTTTCATCTGGATTCTACAAAAAACAGGATGCCACCGTTAGATTACAGGCAGCAGTGCTGTG
TACCTCGGGTGGGAGGGATGGGGCCATCTCCTTACCCTGGCTACCATTTGTCAGTCTGAGGGGATGTGGAGTGAG
AACAGCATTTAGTGAAGTTGTGCAACGGCCAGGGTTGTGCTTTCTAGCAAATATGCTGTTATGTCCAGAAATTGT
GTGTGCAAGAAAAGTAGGCAATGTACTCTTCCGATGTTTGTGTACACAACTGATGTGACTTTTATATGCTTT
TTCTCAGATCTGTTTTCTAAGAGTTTTGGGGGGCGGGGCTGTACCACGTGCAGTATCTCAAGATATTCAGGTGG
CCAGAAGAGCTTGTGCAAGAGGAGGAACAGAATTCTCCCAGCGTTAACACAAAATCCATGGGCAGCATGATGG
CAGGTCTCTGTGCAAACTCAGTTCCAAAGTCACAGGAAGAAAGCAGAAAGTTCAACTTCCAAAGGGTTAGGAC
TCTCCACTCAATGTCTTAGGTCAGGAGTTGTGTCTAGGCTGGAAGAGCCAAAGAAATATTCCATTTTCTTTCT
TGTGGTTGAAACCACAGTCAGTGGAGAGATGTTTGGAAACACAGTCAGTGGAGCTGGTGGTACCAGGTTTAGCATT
ATTGGATGTCAAAAGCATTTTTTTTTGTGTCATGTAGCTGTTTAAAGAAATCTGGCCAGGGTGTGTCAGCTGTGAG
AAGTCACTCACACTGGCCACAAGGACGCTGGCTACTGTCTATTAAATTTCTGATGTTTCTGTGAAATTTCTCAGAG
TGTTTAATTGTACTCAATGGTATCATTACAATTTTCTGTAAGAGAAAATATTACTTATTTATCCTAGTATTCCTA
ACCTGTCAGAATAATAAATATTGTGGTAAAA

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FIGURE 560

MMLQHPPGQVSASEVSASAIVPCLSPPGSLVFEDFANLTPFVKEELRFAIQNKHLCHRMSSALESVTVSDRPLGVS
ITKAEVAPPEEDERKKRRRERNKIAAAKCRNKKKEKTECLQLQY

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FIGURE 561

GGCCTCCCACTTGGTTGCTCGTACGCGGCTAGTGGGTCCTCAGTGGATGTAGGCTGGGCGCCGCGATGTTTCGACG
GGACACCGGCGGAGAGCGACCTCGGGGTAAAGGGTGGGGCTGGACGTCAGGAGCCAAGATGGCGGCGGTGGTCG
CACTCTCCTTGAGGCGCCGGTTGCCGGCCACAACCCTTGGCGGAGCCTGCCTGCAGGCCTCCCGAGGAGCCCAGA
CAGCTGCAGCCACAGCTCCCCGTATCAAGAAATTTGCCATCTATCGATGGGACCCAGACAAGGCTGGAGACAAAC
CTCATATGCAGACTTATAAGGTTGACCTTAATAAATGTGGCCCCATGGTATTGGATGCTTTAATCAAGATTAAGA
ATGAAGTTGACTCTACTTTGACCTTCCGAAGATCATGCAGAGAAGGCATCTGTGGCTCTTGTGCAATGAACATCA
ATGGAGGCAACACTCTAGCTTGCACCCGAAGGATTGACACCAACCTCAATAAGGTCTCAAAAATCTACCCCTCTTC
CACACATGTATGTGATAAAGGATCTTGTTCCCGATTTGAGCAACTTCTATGCACAGTACAAATCCATTGAGCCTT
ATTTGAAGAAGAAGGATGAATCTCAGGAAGGCAAGCAGCAGTATCTGCAGTCCATAGAAGAGCGTGAGAACTGG
ACGGGCTCTACGAGTGCATTCTCTGTGCCTGCTGTAGCACCAGCTGCCCCAGCTACTGGTGGAACGGAGACAAAT
ATCTGGGGCCTGCAGTTCTTATGCAGGCCTATCGCTGGATGATTGACTCCAGAGATGACTTCACAGAGGAGCGCC
TGGCCAAGCTGCAGGACCCATTCTCTCTATACCGCTGCCACACCATCATGAACTGCACAAGGACCTGTCCTAAGG
GTCTGAATCCAGGGAAAGCTATTGCAGAGATCAAGAAAATGATGGCAACCTATAAGGAGAAGAAAGCTTCAGTTT
AACTGTTTCCATGCTAAACATGATTTATAACCAGCTCAGAGCTGAACATAATTTATATCTAATTTGAGTTCCTTT
AAAGATCTTGGTTTTCCATGAATACAGCATGTATAATAAAAATTTTAAGA

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FIGURE 562

MAAVVALSLRRRLPATTLGGAQLQASRGAQTAAATAPRIKKFAIYRWDPDKAGDKPHMQTYKVDLNNKCGPMVLDA
LIKIKNEVDSTLTFRSCREGICGSCAMNINGGNTLACTRRIDTNLNKVSKEYPLPHMYVIKDLVPDLSNFYAQY
KSIEPYLKKKDESGEGKQYQLQSIEREKLDGLYECILCACCSTSCPSYWWNGDKYLGPAVLMQAYRWMIDSRDD
FTEERLAKLQDPFSLYRCHTIMNCTRTPKGLNPGKAIAEIKMMATYKEKKASV

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FIGURE 563

CCAGAGCCGCAGCCGCAGCCGCCGCTACAGTCCGGGCCGGGCTCCACCGCGCATCCTGCTCCACTCTGGCGACCG
CCCCCGGGGTCCCCGCCGCGGGCGCGGCCCGCC**CATG**GGCGAGGAGGACTACTATCTGGAGCTGTGCGAGCGGC
CGGTGCAGTTCGAGAAGGCCAACCCTGTCAACTGCGTCTTCTTCGATGAGGCCAACAAGCAGGTTTTTGTCTGTTT
GATCTGGTGGAGCTACTGGCGTGGTAGTTAAAGGCCCAGATGATAGGAATCCCATCTCATTTAGAATGGATGACA
AAGGAGAAGTGAAGTGCATTAAGTTTTCTTAGAAAAATAAGATATTGGCTGTTTCAGAGGACCTCAAAGACTGTGG
ATTTTTGTAAATTTATCCCTGATAATTTCCAGCTGGAATACACACAGGAGTGCAAGACTAAGAATGCCAACATT
TAGGATTCTGCTGGACTAGTTCAACTGAAATTGTCTTCATAACAGATCAAGGAATCGAATTTTACCAGGTATTAC
CAGAGAAACGGAGTCTGAAACTCTTGAAGAGCCACAATCTCAATGTGAATTGGTACATGTACTGCCCGAGCGCG
CCGTGATCTTGCTGTCTACACGGTCCTGGAGAATGTCTGCAGCCTTTTCACTTTAGGGCTGGCACTATGTCGA
AGCTGCCCCAAGTTTGAGATTGAATTACCAGCTGCGCCTAAGTCAACTAAACCCAGCCTTTCCGAAAGAGACATCG
CAATGGCTACCATATACGGGCAGCTGTATGTTCTCTTCTTGAGGCATCATTCTCGGACCTCCAACAGCACAGGAG
CGGAGGTGGTCTCTATCATCTACCACGAGAAGGTGCCTGTAAAAAGATGCACATATTGAAGTTAAATAGGACGG
GAAAGTTTGCCCTGAACGTGGTGGACAACCTGGTAGTCGTGCATCATCAGGATACAGAGACATCGGTAATATTTCG
ATATCAAGTTACGGGGAGAGTTTGACGGCTCCGTTACCTTCCACCACCCCGTGCTTCTCTGCTCGATCGATCCAGC
CCTATCAGATCCCCATCACAGGTCTGTGCTGCCGTGACCAGCCAGTCTCCTGTTCCATGTAAACTCTATTCTTCAT
CTTGGATTGTCTTTCAACCTGACATCATTATCAGCGCAAGCCAAGGTTACCTCTGGAACCTCCAAGTGAAACTTG
AGCCCATAGTAAATCTCTTACCAGACAAAGGAAGACTCATGGACTTTCTCCTCCAGAGAAAGGAATGCAAGATGG
TCATCCTGTCTGTCTGTTACAGATGTTAAGTGAGTCAGACAGAGCATCGCTGCCCGTGATAGCCACTGTTTTTG
ATAAACTCAACCATGAGTATAAAAAGTACCTGGATGCCGAGCAGAGTTATGCGATGGCGGTGGAAGCAGGGCAGA
GCCGAAGCAGCCCGCTCCTCAAGAGGCCGGTGCGGACCCAGGCGGTGCTGGACCAGTCAGATGTGTACACCCATG
TCCTGTCAGCCTTCGTGGAAAAGAAGGAGATGCCTCATAAATTTGTGATAGCCGTGCTGATGGAATACATTCGTT
CTCTTAACCAGTTTCAGATTGCAGTACAGCATTACCTACATGAACTTGTTATCAAACCCCTTGTTCCAGCACAAAC
TCTTTTATATGCTGCATCAGTTCCTGCAGTACCAGTCCCTCAGCGACTCCAAACCTTTGGCTTGCTGCTGTTAT
CCCTAGAGAGTTTCTATCCTCCTGCTCATCAGCTATCTCTGGACATGCTGAAGCGACTTTCAACAGCAAATGATG
AAATAGTAGAAGTTCTCCTTTCCAAACACCAAGTGTTAGCTGCCTTAAGGTTTATCCGGGGCATTGGTGGCCATG
ACAACATTTCTGCACGAAAATTTTTAGATGCTGCAAAGCAGACTGAAGACAACATGCTTTTCTATACAATATTCC
GCTTTTTTTGAACAGCGAAACCAGCGTTTGCGAGGGAGCCCCAATTTACACCAGGGGAACACTGTGAAGAACATG
TTGCTTTTTTTCAAACAGATTTTTTGAGACCAAGCTCTAATGAGGCCTACAACATTCT**TGA**AATCACTTGCTGTTTT
TTTATATAAAAAATGTGTACAAAGTTAATTTATTGCATTAATAAAGCTCTTTAACTAT

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FIGURE 564

MGEEDYYLELCERPVOFEKANPVNCFVFFDEANKQVFAVRSGGATGVVVGKPDNRNPISFRMDDKGEVKCIKFSLE
NKILAVQRTSKTVDFCNFIPDNSQLEYTQECKTKNANILGFCWTSSTEIVFITDQGIEFYQVLPEKRSLKLLKSH
NLNVNWYMYCPERAVILLSTTVLENVLQPFHFHFRAGTMSKLPKFEIELPAAPKSTKPSLSERDIAMATIYGQLYVL
FLRHHSRTSNSTGAEVVLYHLPREGACKMHILKLNRTGKFALNVVDNLVVVHHQDTETSVIFDIKLRGEFDGSV
TFHHPVLPARSIQPYQIPITGPAAVTSQSPVPCKLYSSSWIVFQPDIIISASQGYLWNLQVKLEPIVNL L PDKGR
LMDFL LQRKECKMVILSVCSQMLSESDRASLPVIATVFDKLNHEYKKYLD AEQSYAMAVEAGQSRSSP L LKRPVR
TQAVLDQSDVYTHVLSAFVEKKEMPHKFVIAVLM EYIRSLNQFQIAVQH YLHELVIKTLVQHNL FYMLHQFLQYH
VLSDSKPLACL LLSLESFYPPAHQLSLDMLKRLSTANDEIVEVLLSKHQVLAALRFIRGIGGHDNISARKFLDAA
KQTEDNMLFYTIFRFFEQRNQRLRGSPNFTPGEHCEEHVAF F KQIFGDQALMRPTTF

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FIGURE 565

CCTCACTGACTATAAAAAGAATAGAGAAGGAAGGGCTTCAGTGACCGGCTGCCTGGCTGACTTACAGCAGTCAGAC
TCTGACAGGATCATGGCTATGATGGAGGTCCAGGGGGGACCCAGCCTGGGACAGACCTGCGTGCTGATCGTGATC
TTCACAGTGCTCCTGCAGTCTCTCTGTGTGGCTGTAACTTACGTGTACTTTACCAACGAGCTGAAGCAGATGCAG
GACAAGTACTCCAAAAGTGGCATTGCTTGTCTTAAAAAGAAGATGACAGTTATTGGGACCCCAATGACGAAGAG
AGTATGAACAGCCCCCTGCTGGCAAGTCAAGTGGCAACTCCGTCAGCTCGTTAGAAAGATGATTTTGAGAACCTCT
GAGGAAAACCATTTCTACAGTTCAAGAAAAGCAACAAAATATTTCTCCCCTAGTGAGAGAAAGAGGTCCCTCAGAGA
GTAGCAGCTCACATAACTGGGACCAGAGGAAGAAGCAACACATTGTCTTCTCCAACTCCAAGAATGAAAAGGCT
CTGGGCCCGCAAAATAAACTCCTGGGAATCATCAAGGAGTGGGCATTCAATCCTGAGCAACTTGCACCTTGAGGAAT
GGTGAACCTGGTCATCCATGAAAAAGGGTTTTACTACATCTATTCCCAAACATACTTTTCGATTTTCAGGAGGAAATA
AAAGAAAACACAAAGAACGACAAACAAATGGTCCAATATATTTACAAATACACAAGTTATCCTGACCCTATATTG
TTGATGAAAAGTGCTAGAAATAGTTGTTGGTCTAAAGATGCAGAAATATGGACTCTATTCCATCTATCAAGGGGGA
ATATTTGAGCTTAAGGAAAATGACAGAATTTTTGTTTCTGTAACAAATGAGCACTTGATAGACATGGACCATGAA
GCCAGTTTTTTTCGGGGCCTTTTTAGTTGGCTTAACTGACCTGGAAAAGAAAAAGCAATAACCTCAAAGTGAATTC
AGTTTTTCAGGATGATACACTATGAAGATGTTTCAAAAAATCTGACCAAAACAAACAAACAGAAAACAGAAAACAA
AAAAACCTCTATGCAATCTGAGTAGAGCAGCCACAACCAAAAAATTTCTACAACACACACTGTTCTGAAAGTGACT
CACTTATCCCAAGAAAATGAAATTGCTGAAAGATCTTTCAGGACTCTACCTCATATCAGTTTGCTAGCAGAAATC
TAGAAGACTGTCAGCTTCCAAACATTAATGCAATGGTTAACATCTTCTGTCTTTATAATCTACTCCTTGTAAGA
CTGTAGAAGAAAGCGCAACAATCCATCTCTCAAGTAGTGTATCACAGTAGTAGCCTCCAGGTTTCCTTAAGGGAC
AACATCCTTAAGTCAAAAGAGAGAAGAGGCACCACTAAAAGATCGCAGTTTGCCTGGTGCAGTGGCTCACACCTG
TAATCCCAACATTTTGGGAACCCAAGGTGGGTAGATCACGAGATCAAGAGATCAAGACCATAGTGACCAACATAG
TGAAACCCCATCTCTACTGAAAGTGCAAAATTAGCTGGGTGTGTTGGCACATGCCTGTAGTCCCAGCTACTTGA
GAGGCTGAGGCAGGAGAATCGTTTGAACCCGGGAGGCAGAGGTTGCAGTGTGGTGAGATCATGCCACTACACTCC
AGCCTGGCGACAGAGCGAGACTTGGTTTCAAAAAAAAAAAAAAAAAAAAAAATTCAGTAAGTACGTGTTATTTTTT
TCAATAAAATTCTATTACAGTATGTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 566

MAMMEVQGGPSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQMQDKYSKSGIACFLKEDDSYWDPNDEESMNS
PCWQVKWQLRQLVRKMILRTSEETISTVQEKQQNISPLVRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRK
INSWESSRSGHSFLSNLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPDPILLMKS
ARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG

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FIGURE 567

GGGGAGAGCGGGTGTGTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGCGGGTCCGTGACCCCTCCGGCTGCT
CGGAGTGAACAGGCGGCCAGGAAAGAAGCGGGCCTGAACACC**ATG**ATCCCTTTGGAGAAGCCAGGCAGCGGCCGC
TCCTCCCCAGGCGCCACCTCAGGCTCGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCGCCGCCG
CCCCAGGCCCGCGGGCTGCTGACAGAGATACGCGCCGTGGTGCGCACCGAGCCCTTCCAGGACGGCTACAGCCTG
TGCCCGGGCCGGGAGCTGGGCAGGGGGAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAGAA
TTTGCTGCAAAGTTCATGAGAAAAAGAAGAAAGGCCAAGATTGTGCGATGGAAATAATTCATGAGATTGCTGTA
CTTGAAGCTAGCACAAGACAATCCTTGGGTCATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAAA
GATGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTTACACACTCGTGATGTAGTTTCATCTTGAT
TTGAAGCCTCAGAATATTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA
AGAATATTGAAGAACAGTGAAGAGCTCCGAGAAATTATGGGTACCCCTGAATATGTGGCTCCTGAAATTTCTTAGT
TATGATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTTAACATATGTCATGCTTACAGGAATATCA
CCTTTCTTAGGCAATGATAACAAGAAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA
TTTGATGTTTTGTCTGAGTCGGCTGTTGATTTTCATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTCAAGAGCCTTCTTTCAGGATGGAAAAGGCA
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCAATCTGTGCTGAAATTAATTCGGATACCGACAAATCAGAAACC
GAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTTCATATACTCTAGGACAATGCAGACAGTCTGAAAAA
GAGAAAATGGAGCAAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCCAGGAGAA
TTTATCTAC**TGA**GCAATATTTCCCTTTAGAACTTCAAGATTTCTACACTGAAAATGTTAATATTATTTATGGACC
TCTGGCCAAATGGTACATGTACTGGAAGTGGATAACCAGTATCACTTACACAAACAAAAATAACTTTGTCAAATT
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAGTTGCCAACCCAGGATATTTAACAGGTACAGTTACCCGTTTCAAT
GTTATTTTTAAGAAGGGAGATGTTGGCACCTTTGAATTCTACATCCTGTTTCTCCAGAATGAGAATTTGTGTACA
AAGATATTTGTATTCATTTCTTTAAAAAATCCAAGTAAAAGTGCCAAAACCTACATTTCTGTAAATCTCTTGCAT
TATTCATATGTGTATCTATATCTGCATAATGTTTGTTAATGTCTACTAAAATTGCTACTTTTTCTACTTTGGATTT
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCATAAAGTTTGATA
ATGTCTTTTTTAAATATTTTCTTACTGCTTTATAGTGACTTGATTGGTTTCTGTTGTGTTTTTGCCTAAATACT
AGTAACATATCAGTGAAAAACCTAATTTTTTTTTCTCTTCAATGTCAGTACTAGTAAGAGAGGTGGTAATTTTTTACC
TCTGAAATTATTCTGGGTTTAGGTGTCAGCTTTTGAGCTGCTTCCCTCATCACACCACACTCACATGCATCTGTT
CTCTCTCACACTCTATACCCCTGCCACTTCTCGGCACCTCCCCCATGCTTGTCATTTAATTTTGGCCACTTGTA
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAGTGAAAAGATGCTACTATATTGCTTTTGTCCCA
AAGTGAGTAAATCCCCTAGAGCAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACCACAGCCTGTTTCTG
CTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAAATATTTATAAACATTTACTTT
GTCCATAAAAAATTTACATTGGATACTCTGTAAGTAGGAGGTACTTTGTCCCAAAAAGATGTATAAGAATGTACT
AATAGTTTTATTTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTAA
ATATGGAAATGTAAAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTTACACACAAAAGGCTCAGTGCAT
TAAATATTTGCCTATC

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FIGURE 568

MIPLEKPGSGGSSPGATSGSGRAGRGLSGPCRPPPPPQARGLLTEIRAVVRTEPFQDGYSICPGRELGRGKFAVV
RKCIKKDSGKEFAAKFMRKRRKGQDCRMEIIHEI AVL ELAQDNPWVINLHEVYETASEMILVLEYAAGGEIFDQC
VADREEAFKEKDVQRLMRQILEGVHFLHTRDVVHLDLKPQNILLTSESPLGDIKIVDFGLSRILKNSEELREIMG
TPEYVAPEILSYDPISMATDMWSIGVLTIVMLTGISPFLGNDKQETFLNISQMNL SYSEEEFDVLS ESAVDFIRT
LLVKKPEDRATAEECLKHPWLTQSSIQEPSFRMEKALEEANALQEGHSVPEINSDTDKSETEESIVTEELIVVTS
YTLGQCRQSEKEKMEQKAISKRFKFEEPLLQEIPGEFIY

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FIGURE 569A

CACGCCCCGCGCTGCTGGGTCCCGCCAGACACGCCGCCGCCGCGCAGGAAAGTCTACAGTTTGGTACCCCAGGACTC
GCTGGTCAGGAAAGCCCTGCAGGACATGAGTGTTAGGCCCGACGCCTGGCCCTTGGCAGCTTGGGAGGTGGCTGG
GGCTGCTTTTGCCCTTTGCCAGAGACAGCTCCAACCTGAGGACCTCTCCAACGGGCCCCATCCACAGTCCTTCCTTCC
CCTAGTGCTGCGGAAGACAGGCGCGATGATGGACTCCCCGTTCCTGGAGCTGTGGCAGTCCAAGGCAGTGTCAT
CAGGGAGCAGCTGGGACTCGGGGACCGGCCCAACGACTCCTATTGCTACAACCTCGGCCAAAAACAGCACCGTGCT
CCAGGGGGTCACCTTTGGTGGCATCCCCACTGTCTGCTCATAGACGTCAGCTGCTTCCTGTTCTTAATCTTGGT
GTTTTCTATTATAAGAAGAAGATTCTGGGACTATGGCCGCATTGCCCTGGTGTGAGAAGCAGACAGCGAGTCCAG
ATTTTCAGAGATTGTTCATCGACTTCCTCCTCAGGTCAACAAGACTTTGAAAATGAGCTGGGATGCTGTCCCTGGCT
GACTGCCATCTTCCGTCTGCATGATGACCAGATCCTGGAATGGTGTGGGGAGGACGCCATCCACTACCTGTCCTT
CCAGAGGCACATCATCTTCTGTTGGTGGTGGTCAGCTTTTTGTCCCTGTGTGTCATCCTGCCTGTCAACCTCTC
AGGGGATTTGCTGGACAAAGACCCGTATAGTTTTGGGAGGACAACAATAGCAAACCTACAGACTGACAATGACCT
CCTTTGGCTGCACACCATCTTTGCTGTCAATTTACCTCTTCTTCACTGTGGGTTTTCATGCGGCACCACACTCAGTC
CATTAAGTACAAAGAGGAGAACCTGGTGAGGCGGACCCTGTTTCATCACAGGACTCCCCAGAGATGCCAGGAAGGA
GACTGTGGAGAGCCACTTCCGGGACGCGTATCCACGTTGTGAGGTGGTTGATGTGCAGCTGTGCTACAACGTGGC
CAAACCTGATCTACCTGTGCAAGGAGAAAAAGAAGACTGAGAAGAGCCTGACCTATTACACAAACCTGCAGGTGAA
GACAGGCCAGCGGACCCTCATCAACCCCAAGCCCTGTGGCCAGTTTTGCTGCTGTGAAGTGTGGGCTGTGAGTG
GGAAGACGCCATCTCTTACTACACACGGATGAAGGACAGGCTGCTGGAGAGGATCACAGAGGAAGAAGCCACGT
CCAGGACCAGCCCCCTGGGAATGGCCTTCGTACCTTCCAGGAGAAGTCCATGGCCACCTACATCCTGAAAGATTT
CAATGCCTGCAAGTGTGAGAGCCTTCAGTGCAAAGGTGAGCCCCAGCCGTCCTCCCATAGCAGGGAGCTCTATAC
CTCCAAGTGGACAGTCACCTTTGCTGCTGACCCTGAGGACATCTGCTGGAAGAACCTCTCTATCCAGGGCCTCCG
CTGGTGGCTACAGTGGCTGGGCATCAACTTCACCCTCTTCTGGGGCTATTTTTCTGACCACACCCTCCATCAT
CCTGTCCACCATGGACAAGTTTAATGTACCAAACCCATCCATGCGCTGAATAACCCGATCATCAGCCAGTTCTT
CCCCACCCTCCTGCTCTGGTCTTCTCGGCCCTGCTCCCCCTCCATTGTCTACTACTCTACACTGCTGGAGTCTCA
CTGGACCAAGTCGGGGGAAAACCAGATCATGATGACCAAAGTCTACATATTCTTGATCTTCATGGTGTGATCCT
GCCCTCCCTGGGTCTCACCAGTCTAGATTTTTTCTTCCGGTGGCTCTTTGACAAAACCTTCCGAGGCCTCCAT
CAGGTTGGAGTGCCTCTTCTGCTGACCAGGGTGCCTTCTTTGTGAACCTATGTCATCGCCTCGGCCTTCATCGG
CAATGGCATGGAGCTGCTGCGGCTGCCAGGTCTCATCCTCTATACCTTCCGCATGATCATGGCCAAGACGGCTGC
TGACCGCAGGAATGTCAAGCAGAACCAGGCCTTCCAGTACGAGTTTGGAGCCATGTATGCATGGATGCTGTGTGT
CTTCACTGTTCATCGTGGCTACAGCATCACTTGTCCCATCATCGCGCCATTTGGCCTCATCTACATCCTGCTCAA
GCACATGGTGGACCGGCACAACCTCTACTTTCGTCTACCTCCCAGCCAAGCTGGAGAAGGGGATCCACTTTGCCGC
TGTGAACCAGGCCTTGGCAGCCCCCATCCTGTGCCTCTTCTGGCTCTACTTCTTTCTTCTTCTGCGCTGGGTAT
GAAGGCCCCCGCCACTCTGTTACCTTCTGGTGTGCTGCTCACCATCCTGGTCTGCTGGCTCACACCTGCTT
TGGATGCTTCAAGCACCTCAGCCCTCTGAACCTACAAAACAGAAGAGCCTGCAAGTGACAAAGGAAGTGAGGCAGA
GGCCACATGCCCCCACCCTTACACCCCTACGTGCCTCGGATTCTGAACGGCTTGGCCTCGGAGAGGACAGCACT
GTCTCCGCAGCAGCAGCAGCAGACCTATGGTGCCATCCACAACATCAGCGGGACTATCCCTGGACAGTGCTT
GGCGCAGAGCGCCACGGGCAGTGTTGGCTGCTGCCCCCAGGAGGCCCTGAGGCTGGGTCTCACTGCTCTGAAAAGA
CACAACCAGAATGGCCTGGGGCTCAGGCCCTTGGCTGAGTGAGGAATGCGTTGGGACTGCCCAGCTGAGCTATCAG
GTGCCCATCTTTTCTGGTCCCAGCAGTGGTGAGGAGAGCACAGGCAGGCCTCGCCCCCTCCCTTGCTCACCAGTT
TCCCCTCCGGCACAAGCTTCCAGCTCTGCAGCTGGGGTGACATCCCCAGTGGTTTGTGCGCAAGACCATGTGGTG
GACTTTTTCGCCCCCAAACCTGATGAGTCCGGGAGAATATATGGAGAGAGAGATGTAACAAGGGGAAGGCCTCCTC
CCTTCTGAGCACACACACAACCGATAACCAAAGAGATGCTGCAGTCCAGGTCTGAGGTCCCGCTGGCATCCAGCT
CCCTGCTCCATGGCCAGTCCCTCCCCAGCCCAGCAGTCCCTCCAGGCTACATCCAGGAGTAAGCTATGGGGAACA
GGTTGGGAGGTGGCCAGTGCTCCTGCCAGCTGTGCACACATCTCTGTATCCCGCTAGAGTTCTGTGTTTTTGTAT
CATGTTGTGAGGACGCTAGCTGGGTGAGGGTTACCCCATAGCAGGCAGGGACAAGGACCACTCATAATATGCCC
ATTGGACCACAGTTAAGATCCAGCCTCTCTCACCTCTTCAGGGCTGAGTGATGAGTCTGCACCTCCAGGCAGGC
TCTGTGCACTACTACCCCCCTCCGTCTGCTCCCTCCAAGGTGTGGGGGTGGGCAGTGCTCAGGGCCTCCTCGGAG
CCAAAGGACAGCATGGTGGGCACAGAGGAAGGGGTACCTGGGCTGGGTGCAGGGCCATCCCACTGCCCTTGAGCT
GTGGCTCTGGCAGGAAGGAGGGGCAGCCATCCCTCTTCTCCCTCCTGGGGATTCTGGGGAATGGGATGCAACTT

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FIGURE 569B

AAGACTTCTGCCTGAGAAGCCTCCTCCCTGCTGCCTCCAGGGGGCACCAGGCACAAGCCTGTGCAGTAGGGGCG
GGATGGGGGTGTGGAAGAGCAGGTCCAGGCTCCTAGCACAACTGGCCTGGGGCCTTGGCACCTCTGTAGGCCCTG
CCTGTGCCTGTCCGCTGGCCTGGGGGGCCTGGGGCTTATCTGGGCCTTCTCACTCAGGGACTCTCTTGACGCTGAC
TTGCCCCCGCAGCGGTGGCCAGTGCTGCCTCTGCTCCAAGCTGCCCCCTGCGCTGGGAGGGGTGGGGGCGGTGCCA
TTGGTCTGGTGCAGCATAGCCCTGGCCAGTGGCCTCATCCCCAGCAGGCCTCCCGTGCCTCTGCCAGCAAGGAGG
GGCCGGCCAGCTCTGCTTGACAGGGGGCCCCATGTGGGGTCAGCGCACGCTCATGTCACTGAGTTCCAGCCGCT
TTTAGAGTAAAGTCGTTTATCATC

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FIGURE 570

MMDSPFLELWQSKAVSIREQLGLGDRPNDSYCYNSAKNSTVLQGVTFGGIPTVLLIDVSCFLFLILVFSIIRRRF
WDYGRIALVSEADSESRFQRLSSTSSSGQQDFENELGCCPWLTAFRLHDDQILEWCGEDAIHYLSFQRHIIFLL
VVVSFLSLCVILPVNLSGDLDDKDPYSFGRTTIANLQTDNDLLWLHTIFAVIYLFFTVGFMRHHTQSIKYKEENL
VRRTLFITGLPRDARKETVESHFRTDAYPTCEVVDVQLCYNVAKLIYLCKEKKKTEKSLTYTTLNLQVKTGQRTLIN
PKPCGQFCCCEVLGCEWEDAISSYYTRMKDRLLERITEEERHVQDQPLGMAFVTFQEKSMATYILKDFNACKCQSL
QCKGEPQPSSHSRELYTSKWTVTFAADPEDICWKNLSIQGLRWLQWLGINFTLFLGLFFLTTPSIILSTMDKFN
VTKPIHALNNPIISQFFPTLLLWSFSALLPSIVYYSTLLESHWTKSGENQIMMTKVYIFLIFMVLILPSLGLTSL
DFFFRWLFDKTSSEASIRLECVFLPDQGAFFVNYVIASAFIGNGMELLRLPGLILYTFRMIMAKTAADRRNVKQN
QAFQYEFGAMYAWMLCVFTVIVAYSITCPIIAPFGLIYILLKHMVDRHNLVYFVYLPKLEKGIHFAAVNQALAAP
ILCLFWLYFFSFLRLGMKAPATLFTFLVLLLTILVCLAHTCFGCFKHLSPLNYKTEEPASDKGSEAEAHMPPFT
PYVPRIINGLASERTALSPQQQQQTYGAIHNISGTIPGQCLAQSATGSVAAAPQEA

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FIGURE 571A

CGCCCCGCCTCTGAGCTCCCTTCCC**ATG**CGGGCCCTAGTGTTGGAGGACGGGTCTGCGGGGCCAGCCCT
TTGGGGCCCGCGTGTCTGACTGCCGGGGAAGTGGTGTTC**AA**ACCGGCATGGTTCGGCTACCCCGAGGCCCTCACTG
ATCCCTCCTACAAGGCACAGATCTTAGTGCTCACCTATCCTCTGATCGGCAACTATGGCATCCCCCAGATGAAA
TGGATGAGTTCGGTCTCTGCAAGTGGTTTGAATCCTCGGGCATCCACGTAGCAGCACTGGTAGTGGGAGAGTGCT
GTCCTACTCCCAGCCACTGGAGTGCCACCCGCACCCTGCATGAGTGGCTGCAGCAGCATGGCATCCCTGGCTTGC
AAGGAGTAGACACTCGGGAGCTGACCAAGAAGTTGCGGGAACAGGGGTCTCTGCTGGGGAAGCTGGTCCAGAATG
GAACAGAACCTTCATCCCTGCCATTCTTGGACCCCAATGCCCGCCCCCTGGTACCAGAGGTCTCCATTAAGACTC
CACGGGTATTCAATACAGGGGGTGCCCCCTCGGATCCTTGCTTTGGACTGTGGCCTCAAGTATAATCAGATCCGAT
GCCTCTGCCAGCGTGGGGCTGAGGTCACTGTGGTACCCTGGGACCATGCACTAGACAGCCAAGAGTATGAGGGTC
TCTTCTTAAGTAATGGGCCTGGTGACCCTGCCTCCTATCCCAGTGTCGTATCCACACTGAGCCGTGTTTTATCTG
AGCCTAATCCCCGACCTGTCTTTGGGATCTGCCTGGGACACCAGCTATTGGCCTTAGCCATTGGGGCCAAGACTT
ACAAGATGAGATATGGGAACCGAGGCCATAACCAGCCCTGCTTGTTGGTGGGCTCTGGGCGCTGCTTTCTGACAT
CCCAGAACCATGGGTTTGTCTGTGGAGACAGACTCACTGCCAGCAGACTGGGCTCCTCTCTTACCAACGCCAATG
ATGGTTCCAATGAAGGCATTGTGCACAACAGCTTGCCTTTCTTCAGTGTCAGTTTCACCCAGAGCACCAAGCTG
GCCCTTCAGATATGGAAGTCTTTTCGATATCTTTCTGGAACTGTGAAAGAGGCCACAGCTGGGAACCCCTGGGG
GCCAGACAGTTAGAGAGCGGCTGACTGAGCGCCTCTGTCCCCCTGGGATTCCCACTCCCGGCTCTGGACTTCCAC
CACCACGAAAGGTTCTGATCCTGGGCTCAGGGGGCCTCTCCATTGGCCAAGCTGGAGAATTTGACTACTCGGGCT
CTCAGGCAATTAAGGCCCTGAAGGAGGAAAACATCCAGACGTTGCTGATCAACCCCAATATTGCCACAGTGCAGA
CCTCCCAGGGGCTGGCCGACAAGGTCTATTTTCTTCCATAACACCTCATTATGTAACCCAGGTGATACGTAATG
AACGCCCCGATGGTGTGTTACTGACTTTTGGGGGCCAGACTGCTCTGAAGTGTGGTGTGGAGCTGACCAAGGCCG
GGGTGCTGGCTCGGTATGGGGTCCGGGTCTGGGCACACCAGTGGAGACCATTGAGCTGACCGAGGATCGACGGG
CCTTTGCTGCCAGAATGGCAGAGATCGGAGAGCATGTGGCCCCGAGCGAGGCAGCAAATTCTCTTGAACAGGCC
AGGCAGCCGCTGAACGGCTGGGGTACCCTGTGCTAGTGCGTGCAGCCTTTGCCCTGGGTGGCCTGGGCTCTGGCT
TTGCCTCTAACAGGGAGGAGCTCTCTGCTCTCGTGGCCCCAGCTTTTGCCCATACCAGCCAAGTGCTAGTAGACA
AGTCTCTGAAGGGATGGAAGGAGATTGAGTACGAGGTGGTGAGAGACGCCTATGGCAACTGTGTACGGTGTGTA
ACATGGAGAACCTTGGACCCACTGGGCATCCACACTGGTGAGTCCATAGTGGTGGCCCTAGCCAGACACTGAATG
ACAGGGAGTATCAGCTCCTGAGGCAGACAGCTATCAAGGTGACCCAGCACCTGGGAATTGTTGGGGAGTGCAATG
TGCAGTATGCCTTGAACCTGAGTCTGAGCAGTATTACATCATTGAAGTGAATGCCAGGCTCTCTCGCAGCTCTG
CCCTGGCCAGTAAGGCCACAGGTTATCCACTGGCTTATGTGGCAGCCAAGCTAGCATTGGGCATCCCTTTGCCTG
AGCTCAGGAACCTCTGTGACAGGGGTACAGCAGCCTTTGAACCCAGCGTGGATTATTGTGTGGTGAAGATTCCTC
GATGGGACCTTAGCAAGTTCTTGCAGTCAAGCAAAAGATTGGGAGCTGCATGAAGAGCGTTGGTGAAGTCATGG
GCATTGGGCGTTCAATTGAGGAGGCCTTCCAGAAGGCCCTGCGCATGGTGGATGAGAACTGTGTGGGCTTTGATC
ACACAGTGAAACCAGTCAGCGATATGGAGTTGGAGACTCCAACAGATAAGCGGATTTTGTGGTGGCAGCTGCTT
TGTGGGCTGGTTATTCAGTGGACCGCTGTATGAGCTCACACGCATCGACCGCTGGTTCCTGCACCGAATGAAGC
GTATCATCGCACATGCCAGCTGCTAGAACAACACCGTGGACAGCCTTTGCCGCCAGACCTGCTGCAACAGGCCA
AGTGTCTTGGCTTCTCAGACAAACAGATTGCCCTTGCAGTTCTGAGCACAGAGCTGGCTGTTGCAAGCTGCGTC
AGGAACTGGGGATCTGTCCAGCAGTGAAACAGATTGACACAGTTGCAGCTGAGTGGCCAGCCCAGACAAATTACC
TATACCTAACGTATTGGGGCACCACCCATGACCTCACCTTTCGAACACCTCATGTCCTAGTCCTTGGCTCTGGCG
TCTACCGTATTGGCTCTAGCGTTGAATTTGACTGGTGTGCTGTAGGCTGCATCCAGCAGCTCCGAAAGATGGGAT
ATAAGACCATCATGGTGAACATAACCCAGAGACAGTCAGCACCGACTATGACATGTGTGATCGACTCTACTTTG
ATGAGATCTCTTTTGAGGTGGTGTATGGACATCTATGAGCTCGAGAACCCTGAAGGTGTGATCCTATCCATGGGTG
GACAGCTGCCCAACAACATGGCCATGGCGTTGCATCGGCAGCAGTGCCGGGTGCTGGGCACCTCCCCTGAAGCCA
TTGACTCGGCTGAGAACCGTTTCAAGTTTTCCCGGCTCCTTGACACCATTGGTATCAGCCAGCCTCAGTGGAGGG
AGCTCAGTGACCTCGAGTCTGCTCGCCAATTCTGCCAGACCGTGGGGTACCCCTGTGTGGTGCGCCCTCCTATG
TGCTGAGCGGTGCTGCTATGAATGTGGCCTACACGGATGGAGACCTGGAGCGCTTCCTGAGCAGCGCAGCAGCCG
TCTCCAAAGAGCATCCCGTGGTCACTCTCCAAGTTCATCCAGGAGGCTAAGGAGATTGACGTGGATGCCGTGGCCT
CTGATGGTGTGGTGGCAGCCATCGCCATCTCTGAGCATGTGGAGAATGCAGGTGTGCATTGAGGTGATGCGACGC
TGGTGACCCCCCACAAGATATCACTGCCAAAACCTGGAGCGGATCAAAGCCATTGTGCATGCTGTGGGCCAGG

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FIGURE 571B

AGCTACAGGTCACAGGACCCTTCAATCTGCAGCTCATTGCCAAGGATGACCAGCTGAAAGTTATTGAATGCAACG
TACGTGTCTCTCGCTCCTTCCCTTTCGTTTCCAAGACACTGGGTGTGGACCTAGTAGCCTTGGCCACGCGGGTCA
TCATGGGGGAAGAAGTGGAACCTGTGGGGCTAATGACTGGTTCCTGGAGTCGTGGGAGTAAAGGTGCCTCAGTTCT
CCTTCTCCCGCTTGGCGGGTGCTGACGTGGTGTGGGTGTGGAAATGACCAGTACTGGGGAGGTGGCCGGCTTTG
GGGAGAGCCGCTGTGAGGCATACCTCAAGGCCATGCTAAGCACTGGCTTTAAGATCCCCAAGAAGAATATCCTGC
TGACCATTGGCAGCTATAAGAACAAAAGCGAGCTGCTCCCAACTGTGCGGCTACTGGAGAGCCTGGGCTACAGCC
TCTATGCCAGTCTCGGCACAGCTGACTTCTACACTGAGCATGGCGTCAAGGTAACAGCTGTGGACTGGCACTTTG
AGGAGGCTGTGGATGGTGTAGTGGCCACCACAGCGGAGCATCCTGGAGCAGCTAGCTGAGAAAACTTTGAGCTGG
TGATTAACTGTCAATGCGTGGAGCTGGGGGCCGGCTCTCTCTTCTTTGTACCAAGGGCTACCGCACCCGAC
GCTTGGCCGCTGACTTCTCCGTGCCCCTAATCATCGATATCAAGTGCACCAAACCTCTTTGTGGAGGCCCTAGGCC
AGATCGGGCCAGCCCCTCCTTTGAAGGTGCATGTTGACTGTATGACCTCCCAAAGCTTGTGCGACTGCCGGGAT
TGATTGATGTCCATGTGCACCTGCGGAACAGGTGGGACACATAAGGAGGACTTTGCTTCAGGCACAGCCGCTG
CCCTGGCTGGGGGTATCACCATGGTGTGTGCCATGCCAATACCCGGCCCCCATCATTGACGCCCTGCTCTGG
CCCTGGCCCAGAAGCTGGCAGAGGCTGGCGCCCGGTGCGACTTTGCGCTATTCTTGGGGCCTCGTCTGAAAATG
CAGGAACCTTGGGCACCGTGGCCGGGTCTGCAGCCGGGTGAAGCTTTACCTCAATGAGACCTTCTCTGAGCTGC
GGCTGGACAGCGTGGTCCAGTGGATGGAGCATTTTCGAGACATGGCCCTCCACCTCCCCATTGTGGCTCACGCAG
AGCAGCAAACCGTGGCTGCTGTCTCATGGTGGCTCAGCTCACTCAGCGCTCAGTGCACATATGTCAGTGGCAC
GGAAGGAGGAGATCCTGCTAATTAAAGCTGCAAAGGCACGGGGCTTGCCAGTGACCTGCGAGGTGGCTCCCCACC
ACCTGTTCTTAAGCCATGATGACCTGGAGCGCTGGGGCCTGGGAAGGGGGAGGTCCGGCCTGAGCTTGGCTCCC
GCCAGGATGTGGAAGCCCTGTGGGAGAACATGGCTGTTCATCGACTGCTTTGCCTCAGACCATGCTCCCCATACCT
TGGAGGAGAAGTGTGGGTCCAGGCCCCACCTGGGTTCACAGGTTAGAGACCATGCTGCCACTACTCCTGACGG
CTGTAAGCGAGGGCCGGCTCAGCCTGGACGACCTGCTGCAGCGATTGCACCACAATCCTCGGCGCATCTTTCACC
TGCCCCCGCAGGAGGACACCTATGTGGAGGTGGATCTGGAGCATGAGTGGACAATTCCAGCCACATGCCCTTCT
CCAAGGCCCACTGGACACCTTTTGAAGGGCAGAAAGTGAAGGGCACCCTCCGCCGTGTGGTCTGCGAGGGGAGG
TTGCCTATATCGATGGGCAGGTTCTGGTACCCCCGGGCTATGGACAGGATGTACGGAAGTGGCCACAGGGGGCTG
TTCCTCAGCTCCACCCCTCAGCCCCTGCCACTAGTGAGATGACCACGACACCTGAAAGACCCCGCCGTGGCATCC
CAGGGCTTCTGATGGCCGCTTCCATCTGCCGCCCCGAATCCATCGAGCCTCCGACCCAGGTTTGCCAGCTGAGG
AGCCAAAGGAGAAGTCTCTCGGAAGGTAGCCGAGCCAGAGCTGATGGGAACCCCTGATGGCACCTGCTACCCCTC
CACCACCAGTACCGAGACAGGCATCTCCCCAGAACCTGGGGACCCCTGGCTTGTGCACCCCCAGACCTCACCCC
TGCTGCACTCATTAGTGGGCCAACATATCCTGTCCGTCCAGCAGTTCACCAAGGATCAGATGTCTCACCTGTTCA
ATGTGGCACACACACTGCGTATGATGGTGCAGAAGGAGCGGAGCCTCGACATCCTGAAGGGGAAGGTATGGCCT
CCATGTTCTATGAAGTGAGCACACGGACCAGCAGCTCCTTTGCAGCAGCCATGGCCCGGTGGGAGGTGCTGTGC
TCAGCTTCTCGGAAGCCACATCGTCCGTCCAGAAGGGCGAATCCCTGGCTGACTCCGTGCAGACCATGAGCTGCT
ATGCCGACGTCGTGCTGCTCCGGCACCCCCAGCCTGGAGCAGTGGAGCTGGCCGCCAAGCACTGCCGGAGGCCAG
TGATCAATGCTGGGGATGGGGTCCGAGAGCACCCACCCAGGCCCTGCTGGACATCTTCACCATCCGTGAGGAGC
TGGGAACCTGTCAATGGCATGACGATCACGATGGTGGGTGACCTGAAGCACGGACGCACAGTACATTCCCTGGCCT
GCCTGCTCACCCAGTATCGTGTGACCTGCGCTACGTGGCACCTCCCAGCCTGCGCATGCCACCCACTGTGCGGG
CCTTCGTGGCCTCCCGCGGCACCAAGCAGGAGGAATTCGAGAGCATTGAGGAGGCGCTGCCTGACACTGATGTGC
TCTACATGACTCGAATCCAGAAGGAACGATTTGGCTCTACCCAGGAGTACGAAGCTTGCTTTGGTTCAGTTCATCC
TCACTCCCCACATCATGACCCGGGGCCAAGAAGAAGATGGTGGTGTATGACCCGATGCCCCGTGTCAACGAGATAA
GCGTGGAAGTGGACTCGGATCCCCGCGCAGCCTACTTCCGCCAGGCTGAGAACGGCATGTACATCCGCATGGCTC
TGTTAGCCACCGTGCTGGGCCGTTTCTAGGGGCTGGCTTCCTCAGCCTCTTCTCTTTAGGCCAGCTGCTGGGC
AAGGAATTCCAGTGCCTCCTACGGGGGCGAGCACACTTAGATATTCTTGGACATCCAGATTGCTCACATGTGCTGA
CCACACTTCAGGCTCTGGACTGGAGCTCTCTGGCATGGGGGTGGGGCCTCAGATGCTGGGGCCCAGTCTGCCCA
TCTTCATTCTGCACCTTAAACCTGTACAGTCATTTTTCTACTGACTTAATAAACAGCCGAGCTGTCCCTTG

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FIGURE 572

MAALVLEDGSVLRGQPFGA AVSTAGEVVFQ TGMVGYPEALTDP SYKAQILVLTYP LIGNYGIPPEMDEFGLCKW
FESSGIHVAALVVGECCTP SHWSATRTLHEWLQQHGIPGLQGVD TRELTKKLREQGSLLGKLVQNGTEPSSLPF
LDPNARPLVPEVSIKTPRVFNTGGAPRILALDCGLKYNQIRCLCQRGA ETVVPWDHALDSQEYEGFLSNGPGD
PASYP SVVSTLSRVLSEPNRPVFGICLGHQLLALAIGAKTYKMRYGNRGHNQPCLLVGSGRCFLT SQNHGFAVE
TDSLPA DWAPLFTNANDGSNEGIVHNSLPFFSVQFHPEHQAGPSDMELLFDIFLETVKEATAGNPGGQTVRERLT
ERLCPPGIPTPGSGLPPPRKVLILGSGGLSIGQAGEFDYSGSQA IKAALKEENIQTLINPN IATVQTSQGLADKV
YFLPI TPHYVTQVIRNERPDGVLLTFGGQTALNCGVELTKAGVLARYGVRVLGTPVETI ELTEDRRAF AARMAEI
GEHVAPSEAANSLEQAQAAAERLGYPVLVRAAFALGGLGSGFASNREELSALVAPAF AHTSQVLVDKSLKGWKEI
EYEVVRDAYGNCVTVCNMENLDPLGIHTGESIVVAPSQTLNDREYQLLRQTA IKVTQHLGIVGECNVQYALNPES
EQYYIIEVNARLSRSSALASKATGYPLAYVA AKLALGIPLPELRNSVTGGTAAFEPSVDYCVVKIPRWDLSKFLR
VSTKIGSCMKSVGEVMGIGRSFEEAFQKALRMVDENC VGF DHTVKPVS DMELETPTDKRIFVVAALWAGYSVDR
LYELTRIDRWFLHRMKRIIAHAQLLEQHRGQPLPPDLLQQA KCLGFS DKQIALAVLSTELAVRKL RQELGICPAV
KQIDTVAAEWPAQTNYLYLTYWGTTHDLTFRTPHVLVLGSGVYRIGSSVEFDWCAVGCIQQ LRKMGYKTIMVNYN
PETVSTDYDMCDRLYFDEISFEVVMDIYELENPEGVILSMGGQLPNNMAMALHRQQCRVLGTSPEAIDSAENRFK
FSRLLDTIGISQPQWRELSDESARQFCQTVGYPCVVRPSYVLSGAAMNVAYTDGDLERFLSSAAAVSKEHPVVI
SKFIQEAKEIDVDAVASDGVVAAIAISEHVENAGVHSGDATLVTPPQDITAKTLERIKAI VHAVGQELQVTGPFN
LQLIAKDDQLKVIECNVRVRSRFPFVSKTLGVDLVALATRVIMGEEVEPVGLMTGSGVVGKVPQFSF SRLAGAD
VVLGVEMTSTGEVAGFGESRCEAYLKAMLSTGFKIPKKNILLTIGSYKNKSELLPTVRLLES LGYSLYASLGTAD
FYTEHG VKVTAVDWHFEEAVDGECPQRSILEQLAEKNFELVINLSMRGAGGRRLSSFVT KG YRTRRLAADFSVP
LIIDIKCTKLFVEALGQIGPAPPLKVHVDCMTSQKLVR LPLGLIDVHVHLREPGGTHKEDFASGTAAALAGGITMV
CAMPNTRPPIIDAPALALAQKLA EAGARCDFALFLGASSENAGTLGTVAGSAAGLKLYLNETFSELRLDSV VQWM
EHFETWPSHLP IVAHAEQQTVA AVLMAVQLTQRSVHICHVARKEEILLIKA AKARGLPVTCEVAPHHLFLSHDDL
ERLGP GKGEVRPELGSRDVEALWENMAVIDCFASDHAPHTLEEKCGSRPPPGFPGLETMLPLLLLTAVSEGRLSL
DDLLQRLHHNPRRIFHLPPQEDTYVEVDLEHEWTIP SHMPFSKAHWTPFEGQKVKGTVRRVVL RGEVAYIDGQVL
VPPGYGQDVRKWPQGAVPQLPPSAPATSEMTTTPERPRRGIPGLPDGRFHLPPRIHRASDPGLPAEEPKEKSSRK
VAEPELMGTPDGTCTYPPPPVPRQASPNLGTPLGLLHPQTSPLHSLVGHILSVQQFTK DQMSHLFNVAHTLRMM
VQKERSLDILKGKVMASMFYEVSTRTSSSFAAMARLGGA VLSFSEATSS

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FIGURE 573

AGGGAGTCGTGTCGGCGCCACCCCGGCCCCCGAGCCCGCAGATTGCCACCGAAGCTCGTGTGTGCACCCCGGAT
CCCGCCAGCCACTCGCCCCCTGGCCTCGCGGGCCGTGTCTCCGGCATCATGTGTGGTATATTTGCTTACTTAACT
ACCATGTTCTCTCGAACGAGACGAGAAATCCTGGAGACCCCTAATCAAAGGCCTTCAGAGACTGGAGTACAGAGGAT
ATGATTCTGCTGGTGTGGGATTTGATGGAGGCAATGATAAAGATTGGGAAGCCAATGCCTGCAAAACCCAGCTTA
TTAAGAAGAAAGGAAAAGTTAAGGCACTGGATGAAGAAGTTCACAAGCAACAAGATATGGATTTGGATATAGAAT
TTGATGTACACCTTGGAATAGCTCATACCCGTTGGGCAACACATGGAGAACCCAGTCCTGTCAATAGCCACCCCC
AGCGCTCTGATAAAAAATAATGAATTTATCGTTATTTCACAATGGAATCATCACCAACTACAAAGACTTGAAAAAGT
TTTTGGAAAGCAAAGGCTATGACTTCTGAATCTGAAACAGACACAGAGACAATTGCCAAGCTCGTTAAGTATATGT
ATGACAATCGGGAAAGTCAAGATACCAGCTTTACTACCTTGGTGGAGAGAGTTATCCAACAATTGGAAGGTGCTT
TTGCACCTGTGTTTTAAAGTGTTTCATTTTCCCGGGCAAGCAGTTGGCACAAGGCGAGGTAGCCCTCTGTTGATTG
GTGTACGGAGTGAACATAAACTTTCTACTGATCACATTCTTATACTCTACAGAACAGGCAAGACAAGAAAGGAA
GCTGCAATCTCTCTCGTGTGGACAGCACAACTGCCTTTTCCCGGTGGAAGAAAAGCAGTGGAGTATTACTTTG
CTTCTGATGCAAGTGCTGTCTATAGAACACACCAATCGCGTCATCTTTCTGGAAGATGATGATGTTGCAGCAGTAG
TGGATGGACGTCTTTCTATCCATCGAATTAAACGAAGTGCAGGAGATCACCCCGGACGAGCTGTGCAAACTCC
AGATGGAAGTCCAGCAGATCATGAAGGGCAACTTCAGTTCATTTATGCAGAAGGAAATATTTGAGCAGCCAGAGT
CTGTCTGTAACACAATGAGAGGAAGAGTCAACTTTGATGACTATACTGTGAATTTGGGTGGTTTGAAGGATCACA
TAAAGGAGATCCAGAGATGCCGGCGTTTGATTCTTATTGCTTGTGGAACAAGTTACCATGCTGGTGTAGCAACAC
GTCAAGTCTTGTAGGAGCTGACTGAGTTGCCTGTGATGGTGGAACTAGCAAGTGAAGTCTCTGGACAGAAAACAC
CAGTCTTTCGAGATGATGTTTGCTTTTTCTTAGTCAATCAGGTGAGACAGCAGATACTTTGATGGGTCTTTCGTT
ACTGTAAGGAGAGAGGAGCTTTAACTGTGGGGATCACAAACACAGTTGGCAGTTCATATCACGGGAGACAGATT
GTGGAGTTCATATTAATGCTGGTCTGAGATTGGTGTGGCCAGTACAAAGGCTTATACCAGCCAGTTTGTATCCC
TTGTGATGTTTGCCCTTATGATGTGTGATGATCGGATCTCCATGCAAGAAAGACGCAAGAGATCATGCTTGGAT
TGAAACGGCTGCCTGATTTGATTAAGGAAGTACTGAGCATGGATGACGAAATTCAGAACTAGCAACAGAAGCTTT
ATCATCAGAAAGTCAGTTCGTATAATGGGACGAGGCTATCATTATGCTACTTGTCTTGAAGGGGCACTGAAAATCA
AAGAAATTACTTATATGCACTCTGAAGGCATCCTTGCTGGTGAATTGAAACATGGCCCTCTGGCTTTGGTGGATA
AATTGATGCCTGTGATCATGATCATGAGAGATCACACTTATGCCAAGTGTGAGAATGCTCTTCAGCAAGTGG
TTGCTCGGCAGGGGCGGCCTGTGGTAATTTGTGATAAGGAGGATACTGAGACCATTAAAGAACACAAAAGAACGA
TCAAGGTGCCCCACTCAGTGGACTGCTTGCAGGGCATTCTCAGCGTGATCCCTTTACAGTTGCTGGCTTTCCACC
TTGCTGTGCTGAGAGGCTATGATGTTGATTTCCACGGAATCTTGCCAAATCTGTGACTGTAGAGTAGGGAATAT
CTATACAAAATGTACGAACTGTATGATTAAGCAACACAAGACACCTTTTGATTTAAACCTTGATTTAAAATA
TCACCCCTTGAAGCCTTTTTTTAGTAAATCCTTATTTATATATCAGTTATAATTATCCACTCAATATGTGATTT
TTGTGAAGTTACCTCTTACATTTTCCAGTAATTTGTGGAGGACTTTGAATAATGGAATCTATATTGGAATCTGT
ATCAGAAAGATTCTAGCTATTATTTCTTTAAAGAATGCTGGGTGTGCATTTCTGGACCTCCACTTCAATCTG
AGAAGACAATATGTTTCTAAAAATTGGTACTTGTTCACCATACTTCATTCAGACCAGTGAAAGAGTAGTGCATT
TAATTGGAGTATCTAAAGCCAGTGGCAGTGTATGCTCATACTTGGACAGTTAGGGAAGGGTTTGCCAAGTTTTAA
GAGAAGATGTGATTTATTTTGAATTTGTTTCTGTTTTGTTTTTAAATCAAACGTGAAAACCTTAAACTGAAAA
TTTTATTGGTAGGATTTATATCTAAGTTTGGTTAGCCTTAGTTTCTCAGACTTGTGTCTATTATCTGTAGGTGG
AAGAAATTTAGGAAGCGAAATATTACAGTAGTGCATTGGTGGGTCTCAATCCTTAACATATTTGCACAATTTTAT
AGCACAACTTTAAATTCAAGCTGCTTTGGACAAGTACAATATGATTTTAAATTTGAAGATGGGATGTGTACAT
GTTGGGTATCCTACTACTTTGTGTTTTCAICTCCTAAAGTGTTTTTTATTTTCTTGTATCTGTAGTCTTTTTATT
TTTTAAATGACTGCTGAATGACATATTTTATCTTGTCTTTTAAATCACAAACAGAGCTGCTATTAAATTAATA
TTGATAT

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FIGURE 574

MCGIFAYLNYHVPRTREILETLIKGLQRLEYRGYDSAGVGFDGGNDKDWEANACKTQLIKKKGKVKALDEEVHK
QQDMDLDIEFDVHLGIAHTRWATHGEPSPVNSHPQRSCKNNEFIVIHNGIITNYKDLKKFLESKGYDFESETDTE
TIAKLVKMYDNRESQDTSFTTLVERVIQQLEGAFALVFKSVHFPQGAVGTTRGSPLLIQVRSEHKLSTDHIPIL
YRTGKDKKGSCLNSRVDSTTCLFPVEEKAVEYYFASDASAVIEHTNRVIFLEDDDDVAAVVDGRLSIHRIKRTAGD
HPGRAVQTLQMELOQIMKGNFSSFMQKEIFEQPESSVNTMRGRVNFDDYTVNLGGLKDHKEIQRCRRLILIACG
TSYHAGVATRQVLEELTELPVMVELASDFLDRNTPVFRDDVCFFLSQSGETADTLMGLRYCKERGALTVGITNTV
GSSISRETDCGVHINAGPEIGVASTKAYTSQFVSLVMFALMMCDRISMQERRKEIMLGLKRLPDLIKEVLSMDD
EIQKLATELYHQSVLIMGRGYHYATCLEGALKIKEITYMHSEGILAGELKHGPLALVDKLMFVIMIIMRDHTYA
KCQNALQQVVARQGRPVVICDKEDTETIKNTKRTIKVPHSVDCLOGILSVIPLQLLAFHLAVLRGYDVDFPRNLA
KSVTVE

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FIGURE 575

GGGGAAGGAACACTGTAGGGGATAGCTGTCCACGGACGCTGTCTACAAGACCCTGGAGTGAGATAACGTGCCTGG
TACTGTGCCCTGCATGTGTAAAGATGCCCAGTTGACCTTCGCAGCAGGAGCCTGGATCAGGCACTTCCTGCCTCAG
GTATTGCTGGACAGCCCAGACACTTCCCTCTGTGACCATGAAACTCTGGGTGTCTGCATTGCTGATGGCCTGGTT
TGGTGTCTCTGAGCTGTGTGCAGGCCGAATTCTTCACCTCTATTGGGCACATGACTGACCTGATTTATGCAGAGAA
AGAGCTGGTGCAGTCTCTGAAAGAGTACATCCTTGTGGAGGAAGCCAAGCTTTCCAAGATTAAGAGCTGGGCCAA
CAAAATGGAAGCCTTGACTAGCAAGTCAGCTGCTGATGCTGAGGGCTACCTGGCTCACCTGTGAATGCCTACAA
ACTGGTGAAGCGGCTAAACACAGACTGGCCTGCGCTGGAGGACCTTGTCTGCAGGACTCAGCTGCAGGTTTTAT
CGCCAACCTCTCTGTGCAGCGGCAGTTCTTCCCCACTGATGAGGACGAGATAGGAGCTGCCAAAGCCCTGATGAG
ACTTCAGGACACATACAGGCTGGACCCAGGCACAATTTCCAGAGGGGAACCTCCAGGAACCAAGTACCAGGCAAT
GCTGAGTGTGGATGACTGCTTTGGGATGGGCCGCTCGGCCTACAATGAAGGGGACTATTATCATACGGTGTGTG
GATGGAGCAGGTGCTAAAGCAGCTTGATGCCGGGGAGGAGGCCACCACAACCAAGTCACAGGTGCTGGACTACCT
CAGCTATGCTGTCTTCCAGTTGGGTGATCTGCACCGTGGCCTGGAGCTCACCCGCCGCTGCTCTCCCTTGACCC
AAGCCACGAACGAGCTGGAGGGAATCTGCGGTACTTTGAGCAGTTATTGGAGGAAGAGAGAGAAAAACGTTAAC
AAATCAGACAGAAGCTGAGCTAGCAACCCAGAAGGCATCTATGAGAGGCCTGTGGACTACCTGCCTGAGAGGGA
TGTTTACGAGAGCCTCTGTCTGGGGAGGGTGTCAAACCTGACACCCGTAGACAGAAGAGGCTTTTCTGTAGGTA
CCACCATGGCAACAGGGCCCCACAGCTGCTCATTGCCCCCTTCAAAGAGGAGGACGAGTGGGACAGCCCGCACAT
CGTCAGGTACTACGATGTCTGTCTGATGAGGAAATCGAGAGGATCAAGGAGATCGCAAAACCTAAACTTGCACG
AGCCACCGTTTCGTGATCCCAAGACAGGAGTCCTCACTGTCGCCAGCTACCGGGTTTCCAAAAGCTCCTGGCTAGA
GGAAGATGATGACCCTGTTGTGGCCCGAGTAAATCGTCGGATGCAGCATATCACAGGGTTAACAGTAAAGACTGC
AGAATTGTTACAGGTTGCAAATTATGGAGTGGGAGGACAGTATGAACCGCACTTCGACTTCTCTAGGAATGATGA
GCGAGATACTTTCAAGCATTTAGGGACGGGGAATCGTGTGGCTACTTTCTTAAACTACATGAGTGATGTAGAAGC
TGGTGGTGCCACCGTCTTCCCTGATCTGGGGGCTGCAATTTGGCCTAAGAAGGGTACAGCTGTGTTCTGGTACAA
CCTCTTGCGGAGCGGGGAAGGTGACTACCGAACAAGACATGCTGCCTGCCCTGTGCTTGTGGGCTGCAAGTGGGT
CTCCAATAAGTGGTTCCATGAACGAGGACAGGAGTTCTTGAGACCTTGTGGATCAACAGAAGTTGACTTGACATCC
TTTTCTGTCCTTCCCCTTCCCTGGTCCCTCAGCCCATGTCAACGTGACAGACACCTTTGTATGTTCCCTGTATGTT
CCTATCAGGCTGATTTTTGGAGAAATGAATGTTTGTCTGGAGCAGAGGGAGACCATACTAGGGCGACTCCTGTGT
GACTGAAGTCCCAGCCCTTCCATTACAGCTGTGCCATCCCTGGCCCCAAGGCTAGGATCAAAGTGGCTGCAGCAG
AGTTAGCTGTCTAGCGCCTAGCAAGGTGCCTTTGTACCTCAGGTGTTTTAGGTGTGAGATGTTTCAGTGAACCAA
AGTTCTGATACCTTGTTTACATGTTTGTGTTTTATGGCATTTCTATCTATTGTGGCTTTACCAAAAAATAAAATGT
CCCTACCAGAAGCCTTAAA

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FIGURE 576

MKLWVSALLMAWFGVLSCVQAEFFTSIGHMTDLIYAEKELVQSLKEYILVEEAKLSKIKSWANKMEALTSKSAAD
AEGYLAHPVNAYKLVKRLNTDWPALDVLQDSAAGFIANLSVQRQFFPTDEDEIGAALKMRLQDTYRLDPGTI
SRGELPGTKYQAMLSVDDCFGMGRSAYNEGDDYHTVLWMEQVLKQLDAGEEATTTKSQVLDYLSYAVFQLGDLHR
ALELTRRLSLDPSHERAGGNLRYFEQLLEEEREKTLTNQTEAELATPEGIYERPVDYLPERDVYESLCRGEVVK
LTPRRQKRLFCRYHHGNRAPQLLIAPFKEEDEDWDSPHIVRYDVMSDEEIERIKEIAKPKLARATVRDPKTGVLT
VASYRVSKSSWLEEDDDPVVARVNRMMQHITGLTVKTAELLQVANYGVGGQYEPHFDFSRNDERDTFKHLGTGNR
VATFLNYMSDVEAGGATVFPDLGAAIWPKKGTAVFWYNLLRSGECDYRTRHAACPVLVGCKWVSNKWFERGQEF
LRPCGSTVD

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FIGURE 577

CGGAGCCAGCGTG GGGAGGCCGCTGCCGTGCGCGCCTTGGTTTTTCTGTTCCCTTTTTTTTTTTTTTTTTTAACTT
CCTGCCTATCACACGCAGCCATCAGCCCACAAAAGACATGACTACCAACGCGGGCCCCCTTGACCCATACTGGCCT
CAGCACCTAAGACTGGACAACCTTTGTACCTAATGACCGCCCCACCTGGCATATACTGGCTGGCCTCTTCTCTGTC
ACAGGGGTCTTAGTCGTGACCACATGGCTGTTGTCAGGTCGTGCTGCGGTTGTCCCATTGGGGACTTGGCGGCGA
CTGTCCCTGTGCTGGTTTTGCAGTGTGTGGGTTTCATTACCTGGTGATCGAGGGCTGGTTTCGTTCTCTACTACGAA
GACCTGCTTGGAGACCAAGCCTTCTTATCTCAACTCTGGAAAGAGTATGCCAAGGGAGACAGCCGATACATCCTG
GGTGACAACCTTCACAGTGTGCATGGAAACCATCACAGCTTGCCTGTGGGGACCACTCAGCCTGTGGGTGGTGATC
GCCTTTCTCCGCCAGCATCCCCTCCGCTTCATTCTACAGCTTGTGGTCTCTGTGGGCCAGATCTATGGGGATGTG
CTCTACTTCCTGACAGAGCACCGCGACGGATTCCAGCACGGAGAGCTGGGGCACCCCTCTCTACTTCTGGTTTTAC
TTTGTCTTCATGAATGCCCTGTGGCTGGTGCTGCCTGGAGTCCTTGTGCTTGATGCTGTGAAGCACCTCACTCAT
GCCCAGAGCACGCTGGATGCCAAGGCCACAAAAGCCAAGAGCAAGAAGAACTTGAGGAGTGGTGGACCAGGCTCGA
ACACTGGCCGAGGAGGAGCTCTCTGCCTGCCAGAAGAGTCTAGTCCTGCTCCACAGTTTGGAGGGACAAAGCTA
ATTGATCTGTCACTCAGGCTCATGGGCAGGCACAAGAAGGGGAATAAAGGGGCTGTGTGAAGGCACTGCTGGG
AGCCATTAGAACACAGATACAAGAGAAGCCAGGAGGTCTATGATGGTGACGATTTTTTAAAATCAGGAAATAAAAG
ATCTTGACTCTAAAAAAAAAAAAA

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FIGURE 578

MTTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVVTTWLLSGRAAVVPLGTWRRSLCWFVAVCGFI
HLVIEGWFLVLYYEDLLGDQAFLSQLWKEYAKGDSRYILGDNFTVCMETITACLGPLSLWVVIAFLRQHPLRFIL
QLVVSVCQIYGDVLYFLTEHRDGFQHGELGHPLYFWFYFVFMNALWLVLPGVLVLDVAVKHLTHAQSTLDAKATKA
KSKKN

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FIGURE 579A

GCAC TGCTGCTGCCACCGCCGTCGCCGCCGCGCCGCCGCGCCGCTGCTGCTGCCGGTGCTAAGGAGTTCGCTGGA
GCCCTTTCCTCAGACCCGGCCCGGTCTTCGCGCCCGGACTCCTGGCGCCAGCGCTAGGCGCACTCACCGCTCTGA
CGGGTGACAGCGCGGGAGTTGTCCCAGACTGTGGAGTGGCGGGCACGGCCCCAGCCCCCTTCCCTTCCCTGACC
CCTTCTTGCCATCGCCCCAGACATGGGGAACGCGGGCGACCGCCAAGAAAGGCAGCGAGGTGGAGAGCGTGAAAGA
GTTTCTAGCCAAAGCCAAAGAAGACTTTTTGAAAAATGGGAGAATCCAACCTCAGAATAATGCCGGACTTGAAGA
TTTTGAAAGGAAAAAACCTTGGAACAGGTTTCATTTGGAAGAGTCATGTTGGTAAACACAAAGCCACTGAACA
GTATTATGCCATGAAGATCTTAGATAAGCAGAAGGTTGTTAAACTGAAGCAAATAGAGCATACTTTGAATGAGAA
AAGAATATTACAGGCAGTGAATTTTCCTTTTCCTTGTTCGACTGGAGTATGCTTTTAAGGATAATTCTAATTTATA
CATGGTTATGGAATATGTCCCTGGGGGTGAAATGTTTTACATCTAAGAAGAATTGGAAGGTTTCAGTGAGCCCCA
TGCACGGTTCTATGCAGCTCAGATAGTGCTAACATTCGAGTACCTCCATTCACTAGACCTCATCTACAGAGATCT
AAAACCTGAAAATCTCTTAATTGACCATCAAGGCTATATCCAGGTCACAGACTTTGGGTTTGCCAAAAGAGTTAA
AGGCAGAACTTGGACATTATGTGGAACCTCAGAGTATTTGGCTCCAGAAATAATTCTCAGCAAGGGCTACAATAA
GGCAGTGGATTGGTGGGCATTAGGAGTGCTAATCTATGAAATGGCAGCTGGCTATCCCCATTCTTTGCAGACCA
ACCAATTCAGATTTATGAAAAGATTGTTTCTGGAAAGGTCCGATTCCCATCCCACCTTCAGTTCAGATCTCAAGGA
CCTTCTACGGAACCTGCTGCAGGTGGATTTGACCAAGAGATTTGGAAATCTAAAGAATGGTGTCTAGTGATATAAA
AACTCACAAGTGGTTTGCCACGACAGATTGGATTGCTATTTACCAGAGGAAGGTTGAAGCTCCATTCCATACCAAA
GTTTAGAGGCTCTGGAGATACCAGCAACTTTGATGACTATGAAGAAGAAGATATCCGTGTCTCTATAACAGAAAA
ATGTGCAAAAGAATTTGGTGAATTTTAAAGAGGAACAAGATGACATCTGAGCTCACACTCAGTGTTCGACTCTG
TTGAGAGATAAGGTAGAGCTGAGACCGTCCTTGTGTAAGCAGTTACCTAGTTCCTTCATTCCAACGACTGAGTGA
GGTCTTTATTGCCATCATCCCGTGTGCGCACTCTGCATCCACCTATGTAACAAGGCACCGCTAAGCAAGCATTGT
CTGTGCCATAACACAGTACTAGACCACCTTTCTTACTTCTCTTTGGGTTGTCTTTCTCCTCTCCTACATCCATTTCT
TTCCTTTTCCAATTTTCATTGGTTTTCTCTAAACAGTGCTCCATTTTATTTTGTGGTGTTCAGATGGGCAGTGT
TATGGCTACGTGATATTTGAAGGGAAGGATAAGTGTGCTTTCAGTAGTTATTGCCAATATTGTTGTTGGTCAAT
GGCTTGAAGATAAACTTTCTAATAATTATTTCTTTGAGTAGCTCAGACTTGGTTTTGCCAAAACCTCTTGGTA
ATTTTTGAAGATAGACTGTCTTATCACCAAGGAAATTTATACAAAATTAAGACTAATTTCTTGGAAATTCATATT
CTGGCAATAAAATTTTGGTAGACTAATACAGTACAGCTAGACCCAGAAATTTGGAAGGCTGTAGATCAGAGGTTCT
AGTTCCTTTTCCCTCCTTTTATATCCCTCCTCCTTGAGTAATGAAGTGACCAGCCTGTGTAGTGTGACAAACGT
GTCTCATTCAGCAGGAAAACTAATGATATGGATCATCACCCAGATTCTCTCACTTGGTACCAGCATTTCTGTAG
GTATTAGAGAAGAGTTCTAAGTTTTCTAAACCTTAAGTTCCTTAAGGATTTTAGCCAGTATTTTAATAGAACA
TGATTAATGAAAGTGACAAATTTTAAATTTTCTCTAATAGTCCCTCATCAAACTTTTTAAAGGAAAATAAGCAA
ACTAAAAAGAACATTGGTTTAGATAAATACTTATACTTTGCAAAGTCAAAAATGGCTTGATTTTTGGAAACAATA
TAGAGGTATTCATATTTAAATGAGGGTTTACATTTGTTTTGTTTTGTAACCGTTAAAAAGAAGTTGTTTCCAGCT
AATTATTGTTGGTGTACTATATTTGTGAGCCTAGGGTAGGGGCACTGCTGCAACTTCTGCTTTCATCCCATGCCTC
ATCAATGAGGAAAGGGAACAAAGTGTATAAACTGCCACAATTGTATTTTAAATTTGAGGTATGATATTTTCTAGA
TATTTCTAATTTCTAACCTCTGTTCTCTCAGTAAACAGAATGTCTGATCGATCATGCAGATACAATGTTGGTAT
TTGAGAGGTTAGTTTTTTTCTTACACTTTTTTTTGCCAACTGACTTAACAACATTGCTGTCAGGTGGAAATTTCA
AGCACTTTTGCACATTTAGTTCAGTGTTTGTGAGAATCCATGGCTTAACCCACTTGTTTTGCTATTTTTTTCTT
TGCTTTTAAATTTTCCCATCTGATTTTATCTCTGCGTTTCAGTGACCTACCTTAAAAACAACACAGAGAAGAGTT
AACTGGGTTTCATTTTAAATGATCAATTTACCTGCATATAAAATTTATTTTAAATCAAGCTGATCTTAATGTATAT
AATCATTTCTATTTGCTTTATTATCGGTGCGAGGTAGGTCATTAAACACCACTTCTTTTCATCTGTACCACACCCTGG
TGAAACCTTTGAAGACATAAAAAAACCTGTCTGAGATGTTCTTTCTACCAATCTATATGTCTTTCGGTTATCAA
GTGTTTCTGCATGGTAATGTCTATGTAATGCTGATATTGATTTCACTGGTCCATCTATATTTAAACGTCGAAGA
AAAAAATAAAATACTCTGCTCTAGCAAGTTTTGTGTAACAAAGGCATATCGTCATGTTAATAAATTTAAACATC
ATTCGTATAAAATATTTTAAATTTTCTTGTATTTTCATTTAGACCCAAGAACATGCTGACCAATGTGTTCTATATGT
AACTACAAATTTCTATGGTAGCTTTGTGTATATTATTGTAAATTTATTTTAAATAAGTCATGGGGATGACAATTT
GATTATTACAATTTAGTTTTTCAGTAATCAAAAAGATTTCTATGAATTTCTAAAAATATTTTTTTCTATGAAATTA
CTAGTGCCAGCTGTAGAATCTACCTTAGGTAGATGATCCCTAGACATACGTTGGTTTTGAGGGCTATTTCAGCCA
TTCCATTTTACTCTCTATTTAAAGGCCGTGAGCAAGCTTGTCTATGAGCAAATATGTCAAGGGAGTCAATTTCTGA

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FIGURE 579B

CCAATCAAGTACACTAAATTAGAATATTTTTAAAGTATGTAACATTCCCAGTTTCAGCCACAATTTAGCCAAGAA
TAAGATAAAAACTTGAATAAGAAGTAAGTAGCATAAATCAGTATTTAACCTAAAATTACATATTTGAAACAGAAG
ATATTATGTTATGCTCAGTAAATAATTAAGAGATGGCATTGTGTAAGAAGGAGCCCTAGACTGAAAGTCAAGACA
TCTGAATTTTCAGGCTGGAAAACCTATCAGTATGATCTCAGCCTCAGTTCTTGTCTGTAAAATGGAAGAAGTGGAA
TTAGGCAGTTTGTAAAGATTCTCCTAACTTTACAGTCGATGACAAGATTGTCCTTTTTATCTGATATTTTGAAGG
GTATATTGCTTTGAAGTAAGTCTCAATAAGGCAATATATTTTAGGGCATCTTTCTTCTTATCTCTGACAGTGTTT
TTAAAATTATTTGAATATCATAAGAGCCTTGGTGTCTGTCTAATTCCTTTCTCACTCACCGATGCTGAATACCC
AGTTGAATCAAACGTCAACCTACCAAAAACGATATTGTGGCTTATGGGTATTGCTGTCTCATTCTTGGTATATT
CTTGTGTTAACTGCCCATTGGCCTGAAAATACTCATTGTAAGCCTGAAAAAAAAAATCTTCCCAGTGTTC
TGCTTGTTGTAAGAATCAAATGAAATAATGTATGTGAAAGCACCTTGTAAGTGTAACTGTAACTATCAATGTAAATGT
TAAGGTGTGTTGTTATTTTATTAATTACTTCTTTGTTTAGAATGGAATTCCTATGCACTACTGTAGCTAGGAAA
TGCTGAAAACAACGTGTGTTTTTTAATTAATCAATAACTGCAAAATTAAAGTACCTTCAATGGATAAGCCAAAAAA
ATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTCGATATCAGCTTATCATAACC

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FIGURE 580

HCCCHRRRRRAAAPLLLPLVRSSLEFPFPQTRPGLRARTPGASARRTHRSDGCRRGSCPRLWSGGHGPSPPSLPXP
LLAIAPDMGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLGTGSFGRVMLVKHKATEQ
YYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMEYVPGGEMFSLRRIGRFSEPH
ARFYAAQIVLTFEYLSLDLIYRDLKPENLLIDHQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNK
AVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIK
THKWFATTDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEDIRVSITEKCAKEFGEF

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FIGURE 581

CCAGCCCCCTTCCCTTCCCTGACCCCTTCTTGCCATCGCCCCAGAC**ATG**GGGAACGCGGCGACCGCCAAGAAAG
GCAGCGAGGTGGAGAGCGTGAAAGAGTTTCTAGCCAAAAGCCAAAGAAGACTTTTTGAAAAAATGGGAGAAATCCAA
CTCAGAAATAATGCCGGAAGTTGAAGATTTTGAAAGGAAAAAAACCCCTTGGAACAGGTTTCAATTTGGAAGAGTCATGT
TGGTAAAAACACAAAGCCACTGAACAGTATTATGCCATGAAGATCTTAGATAAGCAGAAGGTTGTTAAACTGAAGC
AAATAGAGCATACTTTGAATGAGAAAAGAATATTACAGGCAGTGAATTTTCCTTTTCCTTGTTCGACTGGAGTATG
CTTTTAAGGATAATTCTAATTTATACATGGTTATGGAATATGTCCCTGGGGGTGAAATGTTTTACATCTAAGAA
GAATTGGAAGGTTTCAGTGAGCCCCATGCACGGTTCTATGCAGCTCAGATAGTGCTAACATTTCGAGTACCTCCATT
CACTAGACCTCATCTACAGAGATCTAAAACCTGAAAATCTCTTAATTGACCATCAAGGCTATATCCAGGTCACAG
ACTTTGGGTTTGCCAAAAGAGTTAAAGGCAGAACTTGGACATTATGTGGAACCTCAGAGTATTTGGCTCCAGAAA
TAATTCTCAGCAAGGGCTACAATAAGGCAGTGGATTGGTGGGCATTAGGAGTGCTAATCTATGAAATGGCAGCTG
GCTATCCCCCATTCTTTGCAGACCAACCAATTCAGATTTATGAAAAGATTGTTTCTGGAAAGGTCCGATTCCCAT
CCCCTTCAGTTCAGATCTCAAGGACCTTCTACGGAACCTGCTGCAGGTGGATTGACCAAGAGATTTGGAAATC
TAAAGAATGGTGTCAGTGATATAAAAACTCACAAGTGGTTTGCCACGACAGATTGGATTGCTATTTACCAGAGGA
AGGTTGAAGCTCCATTTCATACCAAAGTTTAGAGGCTCTGGAGATACCAGCAACTTTGATGACTATGAAGAAGAAG
ATATCCGTGTCTCTATAACAGAAAAATGTGCAAAAGAATTTGGTGAATTT**TAA**AGAGGAACAAGATGACATCTGA
GCTCACACTCAGTGTGTTGCACTCTGTTGAGAGATAAGGTAGAGCTGAGACCGTCCTTGTTGAAGCAGTTACCTAG
TTCCTTCATTCCAACGACTGAGTGAGGTCTTTATTGCCATCATCCGTGTGCGCACTCTGCATCCACCTATGTAAC
AAGGCACCGCTAAGCAAGCATTGTCTGTGCCATAACACAGTACTAGACCCTTTCTTACTTCTCTTTGGGTTGTC
TTTCTCCTCTCCTACATCCATTTCTTCCTTTTCAATTTTCAATTTGTTTCTCTAAACAGTGCTCCATTTTATTTTG
TTGGTGTTCAGATGGGCAGTGTTATGGCTACGTGATATTTGAAGGGAAGGATAAGTGTTGCTTTCAGTAGTTAT
TGCCAATATTGTTGTTGGTCAATGGCTTGAAGATAAACTTTCTAATAATTATTATTTCTTTGAGTAGCTCAGACT
TGGTTTTTGCCAAAACCTCTTGGTAATTTTTGAAGATAGACTGTCTTATCACCAAGGAAATTTATACAAATTAAGAC
TAACTTTCTTGGAATTCATAATTCTGGCAATAAATTTTGGTAGACTAATACAGTACAGCTAGACCCAGAAATTTG
GAAGGCTGTAGATCAGAGGTTCTAGTTCCCTTTCCCTCCTTTTATATCCTCCTCCTTGAGTAATGAAGTGACC
AGCCTGTGTAGTGTGACAAACGTGTCTCATTTCAGCAGGAAAACTAATGATATGGATCATCACCCAGATTCTCTC
ACTTGGTACCAGCATTCTGTAGGTATTAGAGAAGAGTTCTAAGTTTCTAAACCTTAACTGTTCCCTTAAGGATT
TTAGCCAGTATTTTAATAGAACATGATTAATGAAAGTGACAAATTTTAAATTTTCTCTAATAGTCCTCATCATAA
ACTTTTTAAAGGAAAAATAAGCAAACCTAAAAAGAACATTGGTTTAGATAAAATACTTATACTTTGCAAAGTCAAAAA
TGGCTTGATTTTGGAAACAATATAGAGGTATTCATATTTAAATGAGGGTTTACATTTGTTTTGTTTTGTAACCG
TTAAAAAGAAGTTGTTTCCAGCTAATTATTGTGGTGTACTATATTTGTGAGCCTAGGGTAGGGGCACTGCTGCAA
CTTCTGCTTTTCATCCCATGCCTCATCAATGAGGAAAGGGAACAAAGTGATATAAACCTGCCACAATTGTATTTTA
ATTTTGAGGTATGATATTTTCAGATATTTTATAATTTCTAACCTCTGTTCTCTCAGTAAACAGAATGTCTGATCG
ATCATGCAGATACAATGTTGGTATTTGAGAGGTTAGTTTTTTTCTTACACTTTTTTTTGCCAACTGACTTAACAA
CATTGCTGTGAGGTGGAAATTTCAAGCACTTTTGCACATTTAGTTCAGTGTTTGTGAGAATCCATGGCTTAACC
CACTTGTTTTGCTATTTTTTTCTTTGCTTTTAATTTTCCCCATCTGATTTTATCTCTGCGTTTCAGTGACCTACC
TTAAAACAACACACGAGAAGAGTTAACTGGGTTTCAATTTTAAATGATCAATTTACCTGCATATAAAATTTATTTTT
AATCAAGCTGATCTTAATGTATATAATCATTCTATTTGCTTTATTATCGGTGCAGGTAGGTCATTAACACCACTT
CTTTTCATCTGTACCACACCCCTGGTGAAACCTTTGAAGACATAAAAAAAACCTGTCTGAGATGTTCTTTCTACCA
ATCTATATGTCTTTCGGTTATCAAGTGTCTGTCATGGTAATGTATGTAATGCTGATATTGATTTCACTGGTC
CATCTATATTTAAAACGTGC

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FIGURE 582

MGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLLGTGSFGRVMLVKHKATEQYYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMMEYVPGGEMFSLRRIGRFSEPHARFYAAQ
IVLTFFEYLSLDLIYRDLKPENLLIDHQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIKTHKWFAT
TDWIAIYQRKVEAPFIPKFRGSGDTSNFDYEEEDIRVSITEKCAKEFGEF

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FIGURE 583A

[illegible]

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FIGURE 583B

GAGATCCTCAAAAAAGGCCCTCCTCTGTGGCTGGCAGCCTCTGACCTTCCCTGGGCTTCAAAGGAAGGCTATGG
AGTTTGCTGTGGGCCCTGCAACCTTCCCAGCCACTCCTGCTGCACTAAGGACTTAGGATCCTTTTATCACAAATC
GGGATTCTCTCCCCACCCCGAATTCTGTCTGCTTAAACTGGAATACACAGGAGCCCTTCCTGGCCTGGATGGTG
TCTCCCAGCTTCCCCGCCCAGCTTGCCCACCCCATAGTTGGTGAGATGCCAAGTTTGGTCTGAGTTGTGACCCCT
TCAGAGTAGATGCCCCGCGAGGCTGGGGTTGGCCCCCTGGAGGGTCAGGGGACCATCTTCTTATTCCTCTTTTCTC
ATTCTCCAACTTCCTCCCCTCCTTCAATTATTTTTTTGTAAAGTTGATGCCTTACTTTTTGGATAAATATTTTT
GAAGCTGGTATTTCTATTTCTTTGGATTTTTTTTAATGTAAGGTTGTTTTGGGGGATGGAGTTAGAACCTTAAT
GATAATTTCTTTCGTTTGGTGTAGGTTTTAGAGATTTGTTTTGTGGAGAGGTTTTTTTCTTTTGATGTAATAAAA
TTTAAAATGGAAATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 584

MEEGARHRNNTTEKKHPGGGESDASPEAGSGGGGVALKKEIGLVSA
CGIIVGNIIGSGIFVSPKGVLENAGSVGLA
LIVWIVTGFITVVGALCYAELGVTIPKSGGDYSYVKDIFGGLAGFLRLWIAVLVIYPTNQAVIALTFSNYVLQPL
FPTCFPPESGLRLLAAICLLLLTWVNCSSVRWATRVQDIFTAGKLLALALIIIMGIVQICKGEYFWLEPKNAFED
FQEPDIGLVALAFLQGSFAYGGWNFLNYVTEELVDPYKNLPRAIFISIPLVTFVYVFANVAYVTAMSPQEELLASN
AVAVTFGEKLLGVMWIMPISVALSTFGGVNGSLFTSSRLFFAGAREGHLPSVLAMIHVKRCTPIPALLFCTCIST
LLMLVTSDMYTLINIVGFINYLFYGGTVAGQIVLRWKKPDIPRPIKINLLFP IIYLLFWAFLLVFSLWSEPVC
GIGLAIMLTGVPVYFLGVYWQHKPKCFSDFIELLTLVSQKMCVVVYPEVERGSGTEEANEDMEEQQQPMYQPTPTK
DKDVAGQQQP

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FIGURE 585A

CCCCGGCGAGCCCCGCCGTGCGCACAGCTCTGCCCGCCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCCGGTTCTAGCAAAGCCCCCGGGGTGCCCATCAGTTTCCTTGGGTGACTACAGCGTGTGTTTTTCTTTTCCT
CTTTCCCCTGCCTGTGTGCCCTTCTCCAGGATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
TCCAAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATAACCGCTGGAAGTCCGAAGAGGAGGAAGCC
AGGAGGCGGCAGTCTGAAGAGGATGAGTTCAGAGTCAAGCAACTGAAGATAACATTGAGAGGCTGGAGCAAGAA
ATACAAACGCTAGAAAGTGAAGAGTCCAGATATCTGCCAAAGAGCAAATCATCCTAGAGAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTTCAAGGGTTTCTCCAGTACGGATGGAGATGCAGTAAATTACATTTCTCCAG
CTTCCCGACCTGCCAATCCTCTGTTCACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GGAGTCGGGTGGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCCAGAC
ATGACTATCAAGAAGCCTCCCCAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACATAGTGCC
ACCTCCTGGAGCCTGCTGCCAGCTCTCTTTCCCCAGATCACAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
TGTAAGGTGTTTCTGGAATCACCTCTACCCACATCCCATGGACCATCCCTCCGCTTTTCTATTACCCCCGCAT
AATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCCTAAGCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCACTGAAAGAACAGCTAGCCGG
CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAATGGCCAT
TCCCCCAGCCAGCCTAGAGATGCGCTGGGGGACAGCCTGCAGGTGCCTGTGAGCCCCAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCGAGATGGAGAGTTCACTCTCACCACTGAAAAAGGAGGCCAAGTTTGAGCTGCGTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAAGAACAATACTGCATTAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAGGAGAGAGAGAGCTCATCCGCAGCCAGGCCGTCAAGAAGAAT
CCTGGCATTGCAGCAAAATGGTGGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCATCGCAGCTCTGCACAGCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTCTGCTGCTCGAAACAATTTAGCTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTCACTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTGCGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGGCTGTCTCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTGCGGTGAGGTCTCAGGAT
ACCACAGTCTTGAGACCCTATCCAATGATTTTACGATGGACAACATCAGTGACAGCGGGGCATCCAATGAGACA
ACCAATGCCCTCCAGGAAAATTTACTGGCTGATTTTCTCTGCCCCAGACACCACAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTCTATTCCCCTTCCACGCTGGGGGACTCT
CCGTGTTGATGACCCCTTGAGTATCAGGCTGGCCTCCTGGTGCAGAATGCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTCGGCTCAGAAAAGCCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCTCTGTTCAA
GAGAAAAGGGATGTATTACCAAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCCCAGCCA
CTGCCAGCTGTGCAGCCAGTGGCCCGATTAAACATGGAGGAGACCAGGCCCGAAGGAAGCTATTTTACGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCTTTT
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAG
GAGCTGAAGAGGCGAGAGACAAGTCTTGAGAGTACGCAGAGCCCCAGGACAAAGAATGCCCCATCACTGCCCTCC
AGAACATGCTACAAAACCTGCTCCAGGGAAAATAGAGAAAGTCAAACCTCCTCCATCCCCACCCTGAAGGCCCC
AGCCTGCAGCCTGACTTAGCCCCCTGAAGAGGCTGCCGGAACCCAGCGGCCCAAGAATCTGATGCAGACCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGCGAGAGAATGGATGATAGTAGTTACACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGGTAAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACAGGAGGAAGAAGACAACGAATTAAACTTCTTCAACCCAGGAAGCGTCTTTGGTGCT
TGGGAGACCAAGAAACCAAGAAATTAACAACCTGAAAGCATTTTAATGGACTATTTATTAAAGTGCAACAAACTC

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FIGURE 585C

TGGTGAATATATTCCATTTTAGTTAAAGAACAAATTCCTGAATTTTAAGCATTTCAGTGAGCTGCCAATTTTGAT
TTTGTGTTGCTCTTTACCCAAATTATTTTTCTTTGTTTTCTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAA
TACTGTGTTTGAAATTATACTCTGTATCTGGTTTCCTGTGTATGTTAACCACCTAAATGTTATTATCCTGCTT
TGGTTTATAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTCTCATTAAAATCCAATGTGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 586

MAEAEELHKERLQAIAEKRRQTEIEGKRQQLDEQILLQHSKSKVLREKWLLQGIPAGTAEIEEEARRRQSEDEF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLKETEKSFKDFQKGFSSDTGDVANYISSQLPDLPILCR
TAEPSPGQDGTSTRAAGVGWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNYSATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTIASRQAPPHIELSNSSPDPMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSSTSSRCSSRDGEFTLTTLKKEAKFELRAFHEDEKPPSKLFEDDEHEKEQYCIKVRPSEEMLELE
KERRELIRSQAVKKNPGIAAKWVNPPQEKTIIEQLDEEHLESHKKYKERKERRAQEQQLLQKQLQQQQQQPPSQ
LCTAPASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENSQRQAVAKGSTPRLFSIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASAAKGQKSPGALETPSAAGSQGNTASQKGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQDITVLETLSNDFSMNIDSGASNETTNALQENSLA
DFSLPQTPQTDNPSEGRGEGVSKSFSDHGFYSPSSTLGDSPFLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPPEATVEEAEEAAFGSEKPSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGPPQPLPAVQPSGPI
NMEETRPEGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLRSRKQRTLMIIEEIRAAQEREELKRQRQVLQ
STQSPRTKNAPSLPSRTCYTAPGKIEKVKPPPSPTTEGPSLQPDLAPEEAAGTQRPKNLMQTLMEDYETHSKR
RERMDDSSYTSKLLSCKVTSEVLEATRNVNRRKSALALRWEAGIYANQEEEDNE

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FIGURE 587A

CCCCGGGCGAGCCCGCCGTGCGCACAGCTCTGCCCGCCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCCGGTTCTAGCAAAGCCCCCGGGGTGCCCATCAGTTTCCTTGGGTGACTACAGCGTGTGTTTTTCTTTCCCT
CTTTCCCTGCCTGTGTGCCCTTCTCCAGGATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
TCCAAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATAACCCGCTGGAAGTCCGAAGAGGAGGAAGCC
AGGAGGCGGCAGTCTGAAGAGGATGAGTTCAGAGTCAAGCAACTTGAAGATAACATTGAGAGGCTGGAGCAAGAA
ATACAAACGCTAGAAAGTGAAGAGTCCAGATATCTGCCAAAGAGCAAATCATCCTAGAGAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTCAGAAGGGTTTCTCCAGTACGGATGGAGATGCAGTAAATTACATTTCTCCAG
CTTCCCGACCTGCCAATCCTCTGTTCACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GGAGTCGGGTGGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCCAGAC
ATGACTATCAAGAAGCCTCCCCAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACTATAGTGCC
ACCTCCTGGAGCCTGCTGCCAGCTCTCTTTCCCCAGATCACAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
TGTAAGGTGTTTCTGGAATCACCTCTACCCACATCCCATGGACCATCCCTCCGCTTTTCTATTACCCCCGCAT
AATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCCTAAGCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCTGAAAGAACAGCTAGCCGG
CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAATGGCCAT
TCCCCAGCCAGCCTAGAGATGCGCTGGGGGACAGCCTGCAGGTGCCTGTCAGCCCCAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCGAGATGGAGAGTTCACTCTCACCACTGAAAAAGGAGGCCAAGTTTGAGCTGCGTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAAGAACAATACTGCATTAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAGGAGAGAGAGAGCTCATCCGCAGCCAGGCCGTCAAGAAGAAT
CCTGGCATTGCAGCAAAATGGTGGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAGAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCCATCGCAGCTCTGCACAGCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTCTGCTGCTCGAAACAATTTGAGCTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTGAGTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTGCGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGGCTGTCTCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTGCGGTGAGGTCTCAGGAT
ACCACAGTCTTGAGACCCTATCCAATGATTTGAGCATGGACAACATCAGTGACAGCGGGGCATCCAATGAGACA
ACCAATGCCCTCCAGGAAAATTTACTGGCTGATTTTCTCTGCCCCAGACACCACAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTCTATTCCCCTTCTCCACGCTGGGGGACTCT
CCGTTGGTTGATGACCCCTTGAGTATCAGGCTGGCCTCCTGGTGCAGAATGCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTCGGCTCAGAAAAGCCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCTCTGTTCAA
GAGAAAAGGGATGTATTACCAAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCCCAGCCA
CTGCCAGCTGTGCAGCCAGTGGCCCGATTAAACATGGAGGAGACCAGGCCCGAAGGAAGCTATTTTACAGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCTTTC
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGGAAGAG
GAGCTGAAGAGGCAGAGACAAGTCTTGAGAGTACGCAGAGCCCCAGGACAAAGAATGCCCCATCACTGCCCTCC
AGAACATGCTACAAAAGTCTCCAGGGAAAATAGAGAAAAGTCAAACCTCCTCCATCCCCCACCCTGAAGGCCCC
AGCCTGCAGCCTGACTTAGCCCTGAAGAGGCTGCCGGAACCCAGCGGCCAAGAATCTGATGCAGACCCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGCGAGAGAATGGATGATAGTAGTTACACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGGTAAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACAGGAGGAAGAAGACAACGAATTAAAACTTCTTCAACCAGGAAGCGTCTTTGGTGCT
TGGGAGACCAAGAAACCAAGAAATTAACAAGTGAAGCATTTTAAATGGACTATTTATTAAAGTGCAACAAACTC

[illegible]

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FIGURE 587C

TGGTGAATATATTCCATTTTAGTTAAAGAACAAATTCCTGAATTTTAAGCATTTCAGTGAGCTGCCAATTTTGAT
TTTGTGTTGCTCTTTACCCAAATTATTTTTTCTTTGTTTTCTTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAA
TACTGTGTTTGGAATTATACTCTGTATCTGGTTTTCTGTGTATGTTAACCACCTTAAATGTTATTATCCTGCTT
TGGTTTTAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTTCTCATTAAAATCCAATGTGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 588

MAEAEELHKERLQAIAEKRRQTEIEGKRQQLDEQIILLQHSSKSVLREKWLLQGIPAGTAEIEEEARRRQSEDEF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLKETESFKDFQKGFSSSTDGDAVNYISSQLPDLPLILCSR
TAEPSPGQDGTSTRAAGVGWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNYSATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSSPDPMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSTTSSRCSSRDGEFTLTTLKKEAKFELRAFHEDKKPSKLFEDDEHEKEQYCIKVRPSEEMLELE
KERRELIRSQAVKKNPGIAAKWWNPPQEKTIIEQLDEEHLESHKKYKERKERRAQEQQLLQKQLQQQQQQPPSQ
LCTAPASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENSRQAVAKGQSTPRLFSIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASAAKGQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQDTTVLETLSNDFSMDNISDSGASNETTNALQENSLA
DFSLPQTPQTDNPSEGRGEGVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPEATVEEAEEAAAFGSEKPPQSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGPPQPLPAVQPSGPI
NMEETRPEGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLRSRKQRTLMIIEEIRAAQEREELKRQRQVLQ
STQSPRTKNAPSLPSRTCYKTAPGKIEKVKPPPSPTTEGPSLQPDLAPEEAAGTQRPKNLMQTLMEDYETHKSKR
RERMDDSSYTSKLLSCKVTSEVLEATRNVNRRKSALALRWEAGIYANQEEEDNE

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FIGURE 589

TTGCTGCATAGATTACAACGGTGATGGCGGGCAAGCGGTCCGGCTGGAGCCGGGCGGCTCTCCTCCAGCTCCTTC
TCGGCGTGAACCTGGTGGTGATGCCGCCACCCGGGCGCGAGTCTGCGCTTCGTTACCTTGCTGTACCGCCATG
GAGACCGTTCCACAGTGAAGACATATCCCAAGGACCCCTATCAGGAAGAAGAATGGCCCCAGGGGTTTGGTCAGT
TAACCAAGGAGGGGATGCTACAGCACTGGGAAGTGGGCCAGGCCCTGCGGCAGCGCTATCACGGCTTCCTAAACA
CCTCTTATCACCGGCAAGAGGTTTATGTGCGAAGCACAGACTTTGACCGGACTCTCATGAGTGCTGAGGCCAACCC
TGGCTGGACTCTTCCCTCCCAACGGGATGCAGCGCTTCAACCCGAACATCTCGTGGCAGCCTATTCTGTGCACA
CTGTGCCCATCACTGAGGACAGGCTGCTGAAGTTCCCGTTGGGCCCATGTCCCCGTTATGAGCAGCTGCAGAACG
AGACCCGGCAGACACCAGAGTATCAGAATGAGAGTTCTCGGAATGCACAATTTCTGGACATGGTGGCCAACGAGA
CAGGGCTTACAGACCTGACACTGGAGACCGTCTGGAATGTCTATGACACACTCTTCTGTGAGCAAACGCACGGGC
TGCGCCTGCCGCCCTGGGCCTCACCCCAAACCATGCAGCGTCTCAGCCGGCTAAAGGACTTCAGCTTCCGCTTCC
TCTTCGGAATCTACCAGCAGGCGGAGAAGGCCCGGCTTCAGGGGGGAGTCTGCTGGCTCAGATAAGGAAGAACC
TGACCTAATGGCGACCACCTCCAGCTCCCCAAGCTGCTGGTTTACTCTGCGCACGACACTACCTGGTTGCC
TGCAAATGGCACTGGATGTCTACAATGGTGAACAAGCCCCCTACGCCTCCTGCCACATATTTGAACTGTACCAGG
AAGATTCTGGGAATTTCTCAGTGGAGATGTACTTTCGGAACGAGAGTGACAAGGCCCCCTGGCCGCTCAGCCTGC
CTGGCTGCCCTCACCGCTGCCCACTGCAGGACTTCCTTCGCCTCACAGAGCCCGTCGTGCCCCAAGGATTGGCAGC
AGGAGTGCCAGCTGGCAAGCGGTCTGTCAGACACAGAGGTGATTGTGGCCTTGGCTGTATGTGGCTCCATCCTCT
TCCTCCTCATAGTGCTGCTCCTCACCGTCTCTTCCGGATGCAGGCCAGCCTCCTGGCTACCGCCACGTGCGAG
ATGGGGAGGACCACGCCTGACAACCACTCAGCCCCCTTCCCTCCACCTCCTAGGGGAGGTGGGCTGGGGCCCTCGC
TCCTGACTGTTGCTGCTCCCCAGCCCATGGACAGGAGATCCTGGGTTGGGCCTCCCTCTGATGACCCAGCCAGA
TGAGCGAGTGGGGCTCAGCGTGGCCCATGGTGCCTGTCACTCAGCATTCCCATGCCTGATGTTTACCAAGTGCTG
TGTTGGACACTGGCTTTCTCCAAACAGGATTTGCCTCCTCCACGCTCCCTACACACCTGAGATGTAAACTGGCAG
TCAGTGTTCACTCAGGACCTAGGATTAGAAAATGGCAGAGTTGGTGCTGGATCCACCTTGCACTTCTATCAAGCC
CTGTTCTTTTTCTCCAGCCTGAAGTCTTCGGCAAATAGCTCAGAGGGACACGGTCTTGCCCTCTCAGTGCTTATT
TTAGTGGGAAAAACAGCTAATACCAGGGGTÀCAAACATTGGCTCCCAAGGAACTGGATCACCCAACAGCCAGCCA
GCCACATTTCCCTGTGTCTGGCTAGAGCCACCATTAGACTCAGACAGAATGCTTCAGGAATCGTTGTCACCCCTT
CAACTGGAGCAGGACGGAAGGTTGTCTGTACTTGGGAGGGAGTGGGGAGTGGTGGGAAGGGAGTTGCTTGTCACA
CGAATCAGGAAACTGCTCTCCCTCAGCTGGGCTGGGGTCTCCAGGGACCTGAGCTACATGCAGGTTGTGAGCTGG
AAAAGAAAGTTCTAGACTGTGGCCCAGAATAGGGCTGGGGCAGCTCCCAGAGAATGAATAGTGCTGTTTCTTATT
GGACTGATA

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FIGURE 590

MAGKRSGWSRAALLQLLLGVNLVVMPPTRARSLRFVTLLYRHGDRSPVKTYPKDPYQEEEWPGFGQLTKEGMLQ
HWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDRTLMSAEANLAGLFPPNGMQRFNPNISWQPIPVHTVPITEDR
LLKFPLGPCPRYEQQLQNETRQTPEYQNESSRNAQFLDMVANETGLTDLTLETVWNVYDTLFCQTHGLRLPPWAS
PQTMQRLSRLKDFSFRFLFGIYQQA EKARLQGGVLLAQIRKNLTLMATTSQLPKLLVYSAHDTTLVALQMALDVY
NGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCPHRCPLQDFLRLTEPVVPKDWQQECQLASG
PADTEVIVALAVCGSILFLLIVLLLTVLFRMQAQPFGYRHVADGEDHA

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FIGURE 591A

CATTTCATAAGACTCAGAGCTACGGCCACGGCAGGGACACGCGGAACCAAGACTTGGAAGCTTGATTGTTGTGGTT
CTTCTTGGGGGTTATGAAATTTTCATTAATCTTTTTTTTTTCCGGGGAGAAAGTTTTTGGAAGATTCTTCCAGAT
ATTTCTTCATTTTCTTTTGGAGGACCGACTTACTTTTTTTTGGTCTTCTTTATTACTCCCCCTCCCCCGTGGGACC
CGCCGGACGCGTGAGGAGACCGTAGCTGAAGCTGATTCTGTACAGCGGGACAGCGCTTCTGCCCCCTGGGGGAG
CAACCCCTCCCTCGCCCCCTGGGTCTACGGAGCCTGCACTTTCAAGAGGTACAGCGGCATCCTGTGGGGGCTTG
GCACCGCAGGAAGACTGCACAGAACTTTGCCATTGTTGGAACGGGACGTTGCTCCTTCCCCGAGCTTCCCCGA
CAGCGTACTTTGAGGACTCGCTCAGCTCACCGGGGACTCCCACGGCTCACCCCGGACTTGCACCTTACTTCCCCA
ACCCGGCCATAGCCTTGGCTTCCCGGCGACCTCAGCGTGGTCACAGGGGCCCCCTGTGCCAGGGAAATGTTTC
AGGCTTTCCCCGGAGACTACGACTCCGGCTCCCGGTGCAGCTCCTCACCTCTGCCGAGTCTCAATATCTGTCTT
CGGTGGACTCCTTCGGCAGTCCACCCACCGCCGCGGCTCCAGGAGTGCGCCGGTCTCGGGGAAATGCCCGGTT
CCTTCGTGCCACGGTCACCGCATCACAACAGCCAGGACCTCCAGTGGCTTGTGCAACCCACCTCATCTCTT
CCATGGCCAGTCCCAGGGGAGCCACTGGCCTCCAGCCCCCGTCTGCGACCCCTACGACATGCCGGGAACCA
GCTACTCCACACCAGGCATGAGTGGCTACAGCAGTGGCGGAGCGAGTGGCAGTGGTGGGCCTTCCACCAGCGGAA
CTACCAGTGGGCCTGGGCCTGCCCGCCAGCCCCGAGCCCCGGCTAGGAGACCCCGAGAGGAGACGCTCACCCAG
AGGAAGAGGAGAAGCGAAGGGTGCGCCGGGAACGAAATAAACTAGCAGCAGCTAAATGCAGGAACCGGCGGAGGG
AGCTGACCGACCGACTCCAGGCGGAGACAGATCAGTTGGAGGAAGAAAAAGCAGAGCTGGAGTGGGAGATCGCCG
AGCTCCAAAAGGAGAAGGAACGTCTGGAGTTTGTGCTGGTGGCCACAAACCGGGCTGCAAGATCCCCCTACGAAG
AGGGGCCCCGGGCGGGGCCGCTGGCGGAGGTGAGAGATTGCGGGCTCAGCACCGGCTAAGGAAGATGGCTTCA
GCTGGCTGCTGCCGCCCCGCCACCACCGCCCCCTGCCCTTCCAGACCAGCCAAGACGCACCCCCAACCTGACGG
CTTCTCTCTTTACACACAGTGAAGTTCAAGTCTCGCGGACCCCTTCCCCGTTGTTAACCTTTCGTACACTTCTT
CGTTTGTCTTACCTGCCCGGAGGTCTCCGCGTTCGCCGGCGCCCAACGCACCAGCGGCAGTGACCAGCCTTCCG
ATCCCCCTGAACCTCGCCCTCCCTCCTCGCTCGGTGAAGTCTTTAGACACACAAAACAAACAAACACATGGGGGAGA
GAGACTTGGAAGAGGAGGAGGAGGAGAAGGAGGAGAGAGAGGGGAAGAGACAAAGTGGGTGTGTGGCCTCCC
TGGCTCCTCCGTCTGACCCTCTGCGGCCACTGCGCCACTGCCATCGGACAGGAGGATTCTTGTGTTTTGTCTG
CCTCTTGTCTGTGCCCCGGCGAGGCCGGAGAGCTGGTGACTTTGGGGACAGGGGGTGGGAAGGGGATGGACAC
CCCCAGCTGACTGTTGGCTCTCTGACGTCAACCCAAGCTCTGGGGATGGGTGGGGAGGGGGGCGGGTGACGCCCA
CCTTCGGGCAGTCCCTGTGTGAGGATGAAGGGACGGGGGTGGGAGGTAGGCTGTGGGGTGGGCTGGAGTCTCTCC
AGAGAGGCTCAACAAGGAAAAATGCCACTCCCTACCCAATGTCTCCACACCCACCCTTTTTTTGGGGTGCCAG
GTTGGTTTCCCCTGCACTCCCGACCTTAGCTTATTGATCCACATTTCCATGGTGTGAGATCCTCTTTACTCTGG
GCAGAAGTGAGCCCCCCTTAAAGGGAATTGCATGCCCCCTAGAATAATCTCATCCCCCACCCGACTTCTTTT
GAAATGTGAACGTCTTCTTGAAGTGTCTAGCCACTCCCTCCCAGAAAACTGGCTCTGATTGGAATTTCTGGCC
TCCTAAGGCTCCCCACCCCGAAATCAGCCCCCAGCCTTGTTCTGATGACAGTGTATCCCAAGACCCTGCCCCC
TGCCAGCCGACCTTCTGGCCTTCTCGTTGGGCCGCTCTGATTTAGGCAGCAGGGGCTGCTGTGATGCCGTCC
TGCTGGAGTGATTTATACTGTGAAATGAGTTGGCCAGATTGTGGGGTGCAGCTGGGTGGGGCAGCACACCTCTGG
GGGGATAATGTCCCCACTCCCGAAAGCCTTTCTCGGTCTCCCTTCCGTCCATCCCCCTTCTTCTCCCCCTCAAC
AGTGAGTTAGACTCAAGGGGGTGACAGAACCGAGAAGGGGGTGACAGTCTCCATCCACGTGGCCTCTCTCTCTC
TCCTCAGGACCCCTCAGCCCTGGCCTTTTTCTTTAAGGTCCCCCGACCAATCCCCAGCCTAGGACGCCAACTTCTC
CCACCCCTTGGCCCCCTCACATCTCTCCAGGAAGGCAGTGAGGGGCTGTGACATTTTTTCCGGAGAAGATTTTCA
GCTGAGGCTTTGGTACCCCCAAACCCCCAATATTTTGGACTGGCAGACTCAAGGGGCTGGAATCTCATGATTCC
ATGCCCCGAGTCCGCCCATCCCTGACCATGGTTTTGGCTCTCCACCCCGCCGTTCCCTGCGCTTTCATCTCATGAG
GATTTCTTTATGAGGCAAAATTTATATTTTTTAATATCGGGGGTGGACCACGCCGCCCTCCATCCGTGCTGCATG
AAAAACATTCACGTGCCCTTGTGCGCGCTCTCCCATCCTGATCCAGACCCATTCTTAGCTATTTATCCCTT
TCCTGGTTTCCGAAAGGCAATTATATCTATTATGTATAAGTAAATATATTATATATGATGTGTGTGTGTGCGTG
CGCGTGAGTGTGTGAGCGCTTCTGCAGCCTCGGCCTAGGTCACGTTGGCCCTCAAAGCGAGCCGTTGAATTGGAA
ACTGCTTCTAGAACTCTGGCTCAGCCTGTCTCGGGCTGACCCTTTTCTGATCGTCTCGGCCCTCTGATTGTTT
CCGATGGTCTCTCTCCCTCTGTCTTTTTCTCTCCGCTGTGTCCATCTGACCGTTTTTCACTTGTCTCTCTTCTGA
CTGTCCCTGCCAATGCTCCAGCTGTCTGTGACTCTGGGTTCGTTGGGGACATGAGATTTTATTTTTTGTGAGTG
AGACTGAGGGATCGTAGATTTTTTACAATCTGTATCTTTGACAATTCTGGGTGCGAGTGTGAGAGTGTGAGCAGG

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FIGURE 591B

CTTGCTCCTGCCAACCACAATTCAATGAATCCCCGACCCCCCTACCCCATGCTGTACTTGTGGTTCTCTTTTGT
ATTTTGCATCTGACCCCGGGGGGCTGGGACAGATTGGCAATGGGCCGTCCCCTCTCCCCTTGGTTCTGCACTGTT
GCCAATAAAAAGCTCTTAAAAACGC

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FIGURE 592

MFQAFPGDYDSGSRCSSSPSAESQYLSSVDSFGSPPTAAASQECAGLGEMPGSFVPTVTAITTSQDLQWLVPPTL
ISSMAQSQQQLASQPPVVDPYDMPGTSYSTPGMSGYSSGGASGSGGPSTSGTTSGPGPAPARPARARPRRPREETL
TPEEEEKRRVRRERNKLAAAKCRNRRRELTDRLQAETDQLEEEKAELESEIAELQKEKERLEFVLVAHKPGCKIP
YEEGPGPGPLAEVRDLPGSAPAKEDGFSWLLPPPPPPPLPFQTSQDAPPNLTASLFTHSEVQVLGDFFPVNPSY
TSSFVLTCPVSAFAGAQR TSGSDQPSDFLNSP SLLAR

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FIGURE 593A

CGTGCGGCGGTGGGCTGGTCTTCCGCGGCCGGCGTTGCGCCGCGGCGGAGGGTGGGCGCGCGGGGAGCGGGATGG
AGCTGGGGCGACCTTGGCTGGAGGTACTGGCCTCAGCCCTTTCTCCCGCTTCCCCACCCCTCTTACCCCCAGATT
ACATTCTCTGTGTGGTGTCTTTACTGCAGATGAAGGATTTGGGGGCAGAGCACTTGGCAGGTCATGAAGGGGTCC
AACTTCTCGGGTTGTTGAACGTCTACCTGGAACAAGAAGAGAGATTCCAACCTCGAGAAAAAGGGCTGAGTTTGA
TTGAGGCTACCCCGGAGAATGATAACACTTTGTGTCCAGGATTGAGAAATGCCAAAGTTGAAGATTTAAGGAGTT
TAGCCAACTTTTTTGGATCTTGCACTGAAACTTTTGTCTGGCTGTCAATATTTTGGACAGGTTCTTGGCTCTTA
TGAAGGTGAAACCTAAACATTTGTCTTGCACTGGAGTCTGTTCTTTTTTGGCTGGCTGCTAGAATAGTTGAAGAAG
ACTGCAATATTCCATCCACTCATGATGTGATCCGATTAGTCAGTGTAATGTACTGCTTCTGCATAAAACGGA
TGGAAAAATAATTTTCAAAAAATTGCACTATGAATTGGAAGCTACTACTGCCTTAAACTTTTTGCACTTATACC
ATACTATTATACTTTGTCTACTTTCAGAAAGGAAAGAAATACTGAGCCTTGATAAACTAGAAGCTCAGCTGAAAG
CTTGCAACTGCCGACTCATCTTTTCAAAAGCAAAACCATCTGTATTAGCCTTGTGCCTTCTCAATTTGGAAGTGG
AACTTTTGAATCTGTTGAATTACTGGAATTTCTTGTCTAGTTAAAAAACATTCCAAGATTAATGACACTGAGT
TCTTCTACTGGAGAGAGTTGGTTTCTAAATGCCAGCCGAGTATTCTTCTCTGAATGTTGCAAAACAGATCTTA
AGAAGTTGGTTTGGATCGTTTCAAGGCGCACAGCCAGAACCTCCACAACAGCTACTATAGTGTTCCTGAGCTGC
CAACGATACCTGAGGGGGGTTGTTTTGATGAAAGTGAAAGTGAGGACTCTTGTGAAGATATGAGTTGTGGAGAGG
AGAGTCTCAGCAGCTCTCCTCCAGTGATCAAGAGTGCACCTTCTTTTTCAACTTCAAAGTGGCACAACACTGT
GCTTTCATCTT**TAG**AAATCTGATTGTTCTGTGCAGAATTTATATTTACAGGTTTCAAAGCAATAAATGGGGGAATA
GGTAGTTTCTGGTTTAGCCCCCATCTAGTCAGGAATTAATATACTGGAATACCTACCTTCTATTTGTTATTTCAG
ATCAGATCTGGCCTATTTTTCATATTTATCCTAAGCCATCAAATGGGGTAGTGCTCTTAAACCATTAACAGTACT
TTAGACATTGGCACTTTATTTTTCTCGTAGATCTTTAGCTACTTTGGGGAGGAGGGAAGGTGCTGATACCTTCAA
TTTGTTACTTTTTCAAGATTTTTTAAAAATAACTAGTGTAGCTTATCTTAAACATTTTTATAAAACCTTCAGATGTCT
TTAAGCAGATTGGAAGTATGCAAGTGCTTCCCTAGCAGGGACAGTGGAATAATCCTTAATGGTTTATCATAGATTT
CACCCCTCCCCCTTCTCAGAAGAGTGAGTATGCTCTTAAATGTCAAACACATTTTTGTGTTTTGTTTTTAAAT
GATCAGTGTCTATTTGATGTGATGCAGATCTTATAAATTTGGGAATTATAATATTGACATTTCTGTGATTTTTAT
ATATGTAATGTCTTAATTGAGATTTCTGTTAAGGCAGAAATAATTAGGCTAGGGCTCTTAGTTTTCATTCCTATT
GCCAAGTATTGTCAAACATATGGTATTATTTAATGTTACTTTAAAAATCCATAATCTGCTAGTTTTGCATGTAC
TTATATGAAAACAGTGCAGTAAGTTGAAAACCTCAGTATCTATGGAATTGATAAATGTTGATCTGGTGTAGTATAT
TTTATCGCATTTTTCTTATATTAATAAATGTCTGCATGATTACATTTTATTTCTTTGTAATTTACATTTTCAAGAT
AGTGTATTGCTATATGGGTGCCAAGATTGAATATGAAGAACCCGAGTGTGTTGTAGTATTATAGTTTTAAGCAAT
CTGTGTGGTGATACAGCCATAAGAATGGGGCTTATATAAACTCTGTACATGTAAGATTTTGTACAGAGAATTTTT
AACTTTATAAATTTGTATATGAACATGTAAATCTTTTAAAAATGTACATAAAATACTGTATTTTTTTACCTTGTGTG
TGATAGTCTAGTCATTGCATGTAAATATAATTTATTATGTATTCTGTAGTATAAATCATACATTGATGACTTACA
TTTTTACTGGTAAGTCAACATCCGTTGGATGTTTTCTGAAGTGGCTCTTTTTGAAGTGATAATAGATTGTAATTC
AAAATAAAATTATTAATGAATTTCTCCTTGTGTTGGGATCACATCTTAATTTTTAATCTGTAAAAGTTCTTGATGT
ATTTTAATGAGAAGACTTTAGGTGAGGCTACAGTGATTCCAGAGTGAGCCTTCTAACTGGCTAGCAGAAAGTTCTC
TAGGTTTGGCATCTGTGCCTTGGAGATACTGAAAGAGAATCTGTCATTTGACAATTGACCTCTTTGTGGGATGGA
CTCATTAAGTATGCTCTCAGAGACTGGTATATTACCAGAATGCCTATTAATTTTTCAGTGAGAGGCAACAGGTATT
AAGTAGAACAGAATGCTCAGGTGGCAGATTAGAACGATCTTTCAGGAGACAAAGCAAGTTTTAATCAGTTGTTT
GGTTAATAAGTATGGGGTGTTCGCTGTGATAGGGCCCCGCCAGCTTCTGGCTCTTGTGGACCTCAAAAAGTATCAG
GTGGTTTTTGCAAGTGGTGGTCTTTTCCCTGCCCCACCCCAATAGGTTCCCATCTGTCTAGTTTGATTTTTGTA
GACCTTTGTTTTCTCTAGTTAGAAAATCAGGTACACTGAATATGGTTTTTCAATGTAACACCTCTTCTCTGGAGATA
GGGGTATGTTTTCTTACCCTTCTAGTGGAGAATCCTACTTGAGGATGACCTTTCTCTCTTACTAAATAATATTA
GTAAATAGTGGGCAATATATTCTGCTTTCAGATTTTGATTTGTTGAGATGTAAAAGTTGTTTGGGGCTTACCAA
TCTCAAGACTCTCTTTAGCTCCTGCAGGATTGTATTGCTTTTCTTACTGGATATTTTTCTGGGTAAAGCATCTTT
GTGGCTTCATCTCTTCCCTGTGGTTTTTCAAGTATTTAGTGCAGACCTCTCTGCTGAGCTTGCAACCTGTTTA
TTCACATGGCCTGCCATGCCACTTGGAGGTTTCTGATTACTCCCAAACCTGCTGGTTCTTTATGTCTTTCTCAGC
GAATAATTCCATCTGTTTCAAGTATTTAGGTGATATGCTCATCTCTTTTGCCTGTTTATGGAGGTACCA
GCCTCTATCATTTGTATGATTTTCTTTTACTGTTTATATCTCTCTGTCCCCCTTTTTCTGCCATTGGCATGGT

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FIGURE 593B

TTAGACCTGTACTCTTTATCAGCAGAGGTACTGTAATATATTTGTGATCCCTCAGCTTCCAGGCTTACTCCTGGT
CTCTGCCTTCCTATCTACATATCCTTTTAAAAATAAAATTTTAACTATCTCCTGAAAAATTGTTGAGTAGGTCACG
CACAATCAGGAGAAAAATCTATTTCATGACATACAAGTCTCTGTCTAATCTGAACACTGCACCTGTCTCTGGCCTT
TTTTTCTTGTCATTTTCCTAGACCTTAAAAAATGTGTATTGAGAAAGAACTCTGTTAGCTATACAGAAGATGAACT
GGGCAATATAGAGTAGCAGCATGGAGACCAGTCTGACTGAACTAAGGCAGTGGAAGTGTGGATGAGGAAGAGAGG
TGAAAATTGAGAAGCGCTATCCTTTCTCTTTGGGCATTATTAGGAGGCTCACAGACAAGTCCAGGAGTCTGGTTA
TACCCTCCTGTGCCATTCAACCAGGTGGCTTTCCCATGACTGTGATGAATAAAATTGAGAAGCCCCTGCCCTTTT
CAGAGCAGAGGGTGAGGAGAAAGCTACCATTTTGTCTCATCCTTACCCCCGTTGACTTGGCGAGAGATTGACC
TTTCAGGTTTTGATCCTGTCAATTTCTAGGATGTGGTGCACGCACCTTTGCTGTTGCGCATGGTGAAGTATTGTGC
CTAGGTCCTGGGTCTTCATCTGTTTGGCTCTGCTACTGTTTCCTCCTCCCAGGAAGTGTGGTTAGACAAATAATG
TGTTTTAATTACCTGTCACACTCAGGATTAATACATACTCAGGTTAACTGTAGAGAGGCATTGGCTTCAGAACAC
TCCTCGTGACAATTTTAACCATTTTCTTTGTCTAGAGTCTGCCTTTTTCTTTTTTACAATTTCTTTTATTTCAAC
ACTAGGTTTCAATATGGTGTTCCTGCTACCTCCCACCTCCCTCCTCCTCATCACACATGCAAATTGTCAGCTTA
TTGAGACAACCCACTTAGATTTCATATATGGACAAGGACAAGGTATTTTGCATTTGTTACTGGAATTCAGTTTTCC
TAACTATTTACTACCAGAAATGGTCAATAACTTACTTTGTGGTTAGCAAATCAAATTGTGTGATAGATAGTTTTCC
CAGTATGATGGCCAGTCAGTCTTTCCATCCCTGTGCCCTACATGCTGCTCTTCCCGTCCACAAGTGGAGTCTGTTT
CTCTTGAGTTTTGGCTGGCCTTATGAATGGCTTTGCTTACTGAAGTGCAGCAGAAGAAATTTAGTATATGTCCAA
GCCTAGGCTTTAAGAGACTGGCAGCTTTCTTTTATCCTTTTTTGGGAAGCTAGCCACCATGCTGCAAAGAAGCTCA
GCTGGATTACTGAAAGATGAGAGGCCATGTGGAGAGAGACTCTTGAGGATGAGAGATTATCTTGATGTTCCAGC
CTTAAGCTCCCAGCTGAATGTGGGTGTATCCTCAGCTACACCACAGAAAACAGAGGAACACTACTCAGTCGATCCCA
ATCAACCCACAGACTCACTAGAAATAACAAATTATTGTTTTAAGCCACGAGGTTTTTGGGGGAGGGTTGTTAAACA
GTAATAGATAAGTGAGACAGATTGCTTGTTATTTATGGTCAAATGGTGATTATCTCTGGTGAGATTACAGGTGAT
GTTTTTTTTTAAGTTATGCCTATCTGTAGTTTTCTTTTTTTCCTAAAATTGATTTGAATTATTAGTGATTAAACAG
AATAAAGAATGAACTTTAAAACACACACGCTGGTTATATGCTTCCTCTAATTAAAATTCATGGCTCTCACCAC

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FIGURE 594

CGGGLVFRGRRCAAAEGGRAGSGMELGRPLLEVLASALSPASPPLLPPDYILCVVSLLQMKDLGAEHLAGHEGVQ
LLGLLNVYLEQEERFQPREKGLSLIEATPENDNTLCPGLRNAKVEDLRSLANFFGSCCTETFLAVNILDRLALM
KVKPKHLSCIGVCSFLLAARIVEEDCNIPSTHDVIRISQCKCTASDIKMEKIISEKLHYELEATTALNFLHLYH
TIILCHTSEKKEILSLDKLEAQLKACNCRLIFSKAKPSVLALCLLNLEVETLKSVELLEIILLVKKHHSKINDTEF
FYWRELVSKCLAEYSSPECCKPDLKKLVWIVSRRTAQNLHNSYYSVPELPTIPEGGCFDESESEDSCEDMSCGEE
SLSSSPPSDQECTFFFNFKVAQTLCFPS

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FIGURE 595

CCGGTCGGATGCCGGACCGGGGGCACCGCTGAGGCGGTGGGTCCCCGACCTGCGAGACAGGTTTGGGAAGCCCCCG
CTGCGCCCAGTCCGTGCGGACCGCGAGGCCGCGGGCGGGTGGAGGCGCGTCTCCGGCACGATGAAAGGATTTGGGG
GCAGAGCACTTGGCAGGTCATGAAGGGGTCCAACCTTCTCGGGTTGTTGAACGTCTACCTGGAACAAGAAGAGAGA
TTCCAACCTCGAGAAAAAGGGCTGAGTTTGATTGAGGCTACCCCGGAGAATGATAACACTTTGTGTCCAGGATTG
AGAAATGCCAAAGTTGAAGATTTAAGGAGTTTAGCCAACTTTTTTGGATCTTGCACTGAAACTTTTGTCTTGCTGGCT
GTCAATATTTTGGACAGGTTCTTGGCTCTTATGAAGGTGAAACCTAAACATTTGTCTTGCACTTGAGTCTGTTCT
TTTTTGCTGGCTGCTAGAAAGTTGAAGAAGACTGCAATATCCATCCACTCATGATGTGATCCGGATTAGTCAG
TGTAATGTACTGCTTCTGACATAAAACGGATGGAAAAATAATTTAGAAAAATTGCACTATGAATTGGAAGCT
ACTACTGCCTTAAACTTTTTGCACCTATACCATACTATTATACTTTGTCATACTTCAGAAAGGAAAGAAATACTG
AGCCTTGATAAACTAGAAGCTCAGCTGAAAGCTTGCAACTGCCGACTCATTTTTCAAAGCAAAACCATCTGTA
TTAGCCTTGTCCTTCTCAATTTGGAAGTGGAACCTTTGAAATCTGTTGAATTACTGGAATTTCTCTTGCTAGTT
AAAAACATTCCAAGATTAATGACACTGAGTTCTTCTACTGGAGAGAGTTGGTTTCTAAATGCCTAGCCGAGTAT
TCTTCTCCTGAATGTTGCAAACAGATCTTAAGAAGTTGGTTTGGATCGTTTCAAGGCGCACAGCCAGAACCTC
CACAACAGCTACTATAGTGTTCCTGAGCTGCCAACGATACCTGAGGGGGGTTGTTTTGATGAAAGTGAAAGTGAG
GACTCTTGGAAGATATGAGTTGTGGAGAGGAGAGTCTCAGCAGCTCTCCTCCCAGTGATCAAGAGTGCACCTTC
TTTTTCAACTTCAAAGTGGCACAACACTGTGCTTTCCATCTTAGAAATCTGATTGTTCTGTCAGAATTTATATT
TACAGGGTTTCAAAGCAATAAATGGGGGAATAGGTAGTTTCCTGGTTTAGCCCCCATCTAGTCAGGAATTAATAT
ACTGGAATACCTACCTTCTATTTGTTATTTCAGATCAGATCTGGCCTATTTTCATATTTATCCTAAGCCATCAAAT
GGGGTAGTGCTCTTAAACCATTAAACAGTACTTTAGACATTGGCACTTTATTTTTCTCGTAGATCTTTAGCTACT
TTGGGGAGGAGGGAAGGTGCTGATACCTTCAATTTGTTACTTTTCAAGATTTTTAAAAATAACTAGTGTAGCTTA
TCTTAAACATTTTATAAAACCTTCAGATGTCTTTAAGCAGATTGGAAGTATGCAAGTGCTTCCTTAGCAGGGACA
GTGGATAATCCTTAATGGTTTATCATAGATTTACCCCTCCCCCTTCTCAGAAGAGTGAGTATGCTCTTAAATGT
CAAACACATTTTTGTTGTTTTGTTTTTAAATGATCAGTGTCTATTTGATGTGATGCAGATCTTATAAATTTGGG
AATTATAATATTGACATTTCTGTGATTTTTATATATGTAATGTCTTAATTGAGATTTGTGTTAAGGCAGAAATAA
TTAGGCTAGGGCTCTTAGTTTTCACTTCTATTGCCCCAAGTATTGTCAAACCTATGGTATTATTTAATGTTACTT
TAAAAATCCATAATCTGCTAGTTTTGCATGTACTTATATGAAAACAGTGCAGTAAGTTGAAAACCTCAGTATCTAT
GGAATTGATAAATGTTGATCTGGTGTAGTATATTTATCCGCATTTTCTTATATTAAAAAATGTTCTGCATGATT
ACATTTTATTTGCCTTTGT

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FIGURE 596

MKDLGAEHLAGHEGVQLLGLLNVYLEQEERFQPREKGLSLIEATPENDNTLCPGLRNAKVEDLRSLANFFGSCTE
TFVLAVNILDRLALMKVKPKHLSCIGVCSFLLAARIVEEDCNIPSTHDVIRISQCKCTASDIKRMEKIISEKLH
YELEATTALNFLHLYHTIILCHTSEKELSLDKLEAQLKACNCRLIFSKAKPSVLALCLLNLEVETLKSVELLE
ILLLVKKHISKINDTEFFYWRELVSKCLAEYSSPECKPDLKKLVWIVSRRTAQNLHNSYYSVPELPTIPEGGCFD
ESESEDSCEDMSCGEESLSSSPSDQECTFFFNFKVAQTLCFPS

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FIGURE 597A

CGGGATTGTTGCTCCGTTGTACCTGCTGGGGAATTCACCTCGTTACTGCTTGATATCTTCCACCCCTTACAAAAT
CAGAAAAGTTGTGTTTTCTAATACCAAAGAGGAGGTTTGGCTTTCTGTGGGTGATTCCCAGACACTGAAGTGCAA
AGAAGAGACCTCCTAGAAAAGTAAATATGACTAAAAGCAATGGAGAAGAGCCCAAGATGGGGGCGAGGATGGA
GAGATTCCAGCAGGGAGTCCGTAAACGCACACTTTTGGCCAAGAAGAAAGTGCAGAACATTACAAAGGAGGATGT
TAAAAGTTACCTGTTTCGGAATGCTTTTGTGCTGCTCACAGTCACCGCTGTCATTGTGGGTACAATCCTTGATT
TACCCTCCGACCATAACAGAATGAGCTACCGGGAAGTCAAGTACTTCTCCTTTCTGGGGAACCTTCTGATGAGGAT
GTTACAGATGCTGGTCTTACCCTTATCATCTCCAGTCTTGTACAGGAATGGCGGCGCTAGATAGTAAGGCATC
AGGGAAGATGGGAATGCGAGCTGTAGTCTATTATATGACTACCACCATCATTGCTGTGGTGATTGGCATAATCAT
TGTCATCATCATCCATCCTGGGAAGGGCACAAAGGAAAACATGCACAGAGAAGGCAAAATTGTACGAGTGACAGC
TGCAGATGCCTTCTGGACTTGATCAGGAACATGTTCCCTCCAAATCTGGTAGAAGCCTGCTTTAAACAGTTTAA
AACCAACTATGAGAAGAGAAGCTTTAAAGTGCCATCCAGGCCAACGAAACGCTTGTGGGTGCTGTGATAAACAA
TGTGTCTGAGGCCATGGAGACTCTTACCCGAATCACAGAGGAGCTGGTCCAGTTCCAGGATCTGTGAATGGAGT
CAATGCCCTGGGTCTAGTTGTCTTCTCCATGTGCTTCGGTTTTGTGATTGGAACATGAAGGAACAGGGGCGAGGC
CCTGAGAGAGTTCTTTGATTCTCTTAACGAAGCCATCATGAGACTGGTAGCAGTAATAATGTGGTATGCCCCCGT
GGGTATTCTCTTCTGATTGCTGGGAAGATTGTGGAGATGGAAGACATGGGTGTGATTGGGGGCGAGCTTGCCAT
GTACACCGTGACTGTCATTGTTGGCTTACTCATTACGCAGTCATCGTCTTGCCACTCCTCTACTTCTTGTTAAC
ACGGA AAAACCCCTTGGGTTTTTATTGGAGGGTTGCTGCAAGCACTCATCACCGCTCTGGGGACCTCTTCAAGTTC
TGCCACCCCTACCCATCACCTTCAAGTGCTGGAAGAGAACAATGGCGTGGACAAGCGCGCTACCAGATTTCGTGCT
CCCCGTAGGAGCCACCATTAAACATGGATGGGACTGCCCTCTATGAGGCTTTGGCTGCCATTTTCATTGCTCAAGT
TAACAACCTTTGAACTGAACTTCGGACAAATTATTACAATCAGCATCACAGCCACAGCTGCCAGTATTGGGGCAGC
TGGAATTCCTCAGGCGGGCCTGGTCACTATGGTCATTGTGCTGACATCTGTGCGCCTGCCACTGACGACATCAC
GCTCATCATCGCGGTGGACTGGTTCTGGATCGCTCCGGACCACCACCAACGTACTGGGAGACTCCCTGGGAGC
TGGGATTGTGGAGCACTTGTACGACATGAAGTGAAGAACAGAGATGTTGAAATGGGTAACCTCAGTGATTGAAGA
GAATGAAATGAAGAAACCATATCAACTGATTGCACAGGACAATGAACTGAGAAACCCATCGACAGTGAAACCAA
GATGTAGACTAACATAAAGAAACACTTTCTTGAGCACCAGGTGTTAAAAACCATTATAAAATCTTTCCATCTCAT
TACAGCTCATTCGCTCCAGCAAGCCCGTCATCTTCCCTTCTCCTTCTGATAAGACTGGAAAATAGTCCTCCA
AAACACAAGGGAGGATTTTGGGTGGCCAAAGTGTAATTTTCATCCACAAATTGAAATTTTTAAATCATTTTCAT
GTTAGTCTTACCGAATAAGGTACCAAGATCACAAATAGTGTTGATCAGATCTTACAAGTTTATGTGGCACACAAT
TCCTATAAATGTGATTTTTTTATATAAGTTAAAGAGACAAATAGTAGGCTAAAAACATTTTAAATCAACTTTTG
AAATTTAAAAATCTTTCAGAATACAATTCAGTTTTAGTTTCAAATGTTAACAACCTTGAATTACAACCGGTTATC
AGTTGGACAGTAAGATTTTATCCCTTTCTCTTCTGACTGGTATACCTATTTTATTAGTAGCTAGGTGCACATATA
CATCTAGCACAGCTGTGAGGACAGACAGAAGGCAAAGTTCCATGTGGCCTTGAGCAAGTCCCATCTCACCTCTA
GGCCTCAGTGTCCTCATCTATAAAATGAGGGACTTCCCTAGAAGTCTTCATGGTCTCTTCCAGCCCAGACATCCT
GTGATGTCATGAAAGCACCTGCCCTCTGTTTTCCCTCAGAACACCCTGTACCATCCATGGAGCACGAGGCCTTCA
GAAAAGACACTTCAATGGGAGTGAACATTTCTAACTAAGGACAGGATGGCTGTGTGTGGTGGTCAACCAGGTCTTG
TGAGCAAAAGTGACAGGTTATGCAAGTCGCCAGGCAGGAGGCCATTCCAGGAGTGGGATTATTCATCAAACTCTTTG
CCCAGTTTCATCCCAATGGGGGAAGTATTCCCTTCTTTCTTCTACTCTGGGAAGAATGTCTCCTGCCACTCCTCAACT
GATGATAGACTTCGAAAACAGATGAGAAGACTAGCAGCTAGCAAGGGTGCTTGTAGTCACACTGTGGAACACTAA
AGAGCTAGGAAAAGAGTTGAGCACAGGCAACATTACAAACAAAGGATTTGAAAACACCAAGAGTACAGGTCTTCTT
TAAGGAAGAATAAAAAAGAAGAGGTTTCAATTTTTCTGGCTTTTTTTTTTACCTGAAACACTTTTTTCTCGAGTCCAA
AATCATTTCCCCCGTGAAGTCTGCTTACCAAAACATAAGACGACTTATATATTTGAAAGAAGTCAAATGAATGAG
CTCTCTAATAGAAGTCCATGAGTTGAGTGGGTATTTCTTATTTGAAAGTGTTTTTCTTTAATCAAAAGTCCTTAG
AATGAGGGAAACAAAATATTTATTTGTTTTGGAATCCCACTTATCAAATCATTCAAACCTTTCAGCTGGAGTGGG
GTTTGCTTTTGTTTTGTGTGTCATAAGAGAAATGGTAGAAGATGAATCAGTATGAAGACACTGTCAATGAGG
TTATGAGAAAAAACAGCAGGGGCATTAGTTTTCAGGCAAGGCAGCTCCAGGTTTAGAGATTAATTTTTTACCCCC
TAAGGAATATCCAGTCAAAGACGCTGAGTGGGAGCTGTCAGGCAGTAGCAGCTGTGTTTGTGTTTCTGGCTGAAA
ATGGTGAAGAATGGACTTAATTATGCTAACAACCTGAAAAATCTAGACATAGATCCTCTGATATACAATTAGAGA
TATTTTTATATAGACCCCAAGCATTCTGTGCATAAAAGTTAACATTAGGCTGTGGTGCAGTAACCATTTAATGTC

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FIGURE 597B

GAGGCTCTATTTTCGAAATACACTACAAATGTTAAAGTACGTGGCTGTCCTCTTAAGACACTAGTAGAGCAAAGA
CTTAATCATATCAACTTAATTCTGTTACACAATATGTGTTTTTTAATACTAACCATTTCTTATGGAAAGGTCC
TGTGGGGAGCCCATCCTCTCGCCAAGCCATCACAGGCTCTGCATACACATGCACTCAGTGTGGACTGGGAAGCAT
TACTTTGTAGATGTATTTTCAATAAAGAAAAAATAGTTTTACATT

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FIGURE 598

MTKSNGE E P K M G G R M E R F Q Q G V R K R T L L A K K K V Q N I T K E D V K S Y L F R N A F V L L T V T A V I V G T I L G F T L R P Y R M S Y
R E V K Y F S F P G E L L M R M L Q M L V L P L I I S S L V T G M A A L D S K A S G K M G M R A V V Y Y M T T T I I A V V I G I I I V I I I H P G K G
T K E N M H R E G K I V R V T A A D A F L D L I R N M F P P N L V E A C F K Q F K T N Y E K R S F K V P I Q A N E T L V G A V I N N V S E A M E T L T
R I T E E L V P V P G S V N G V N A L G L V V F S M C F G F V I G N M K E Q Q Q A L R E F F D S L N E A I M R L V A V I M W Y A P V G I L F L I A G K
I V E M E D M G V I G G Q L A M Y T V T V I V G L L I H A V I V L P L L Y F L V T R K N P W V F I G G L L Q A L I T A L G T S S S S A T L P I T F K C
L E E N N G V D K R V T R F V L P V G A T I N M D G T A L Y E A L A A I F I A Q V N N F E L N F G Q I I T I S I T A T A A S I G A A G I P Q A G L V T
M V I V L T S V G L P T D D I T L I I A V D W F L D R L R T T T N V L G D S L G A G I V E H L S R H E L K N R D V E M G N S V I E E N E M K K P Y Q L
I A Q D N E T E K P I D S E T K M

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FIGURE 599A

[illegible]

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FIGURE 599B

GAACCAGAAGGCCTATTACCCCAGCATCGTGGCCAAACAGGTGGCTGGCCGTGCGGCTGGAGTGTGTGGGCAACTG
CATCGTTCTGTTTGTCTGCCCTGTTTTCGGTGATCTCCAGGCACAGCCTCAGTGCTGGCTTGGTGGGCCTCTCAGT
GTCTTACTCATTTGCAGGTCACCACGTACTTGAAGTGGCTGGTTTCGGATGTCATCTGAAATGGAAACCAACATCGT
GGCCGTGGAGAGGCTCAAGGAGTATTAGAGACTGAGAAGGAGGCGCCCTGGCAAATCCAGGAGACAGCTCCGCC
CAGCAGCTGGCCCCAGGTGGGCCGAGTGGAAATTCGGAACTACTGCCTGCGCTACCGAGAGGACCTGGACTTCGT
TCTCAGGCACATCAATGTCACGATCAATGGGGGAGAAAAGTTCGGCATCGTGGGGCGGACGGGAGCTGGGAAGTC
GTCCCTGACCCTGGGCTTATTTTCGGATCAACGAGTCTGCCGAAGGAGAGATCATCATCGATGGCATCAACATCGC
CAAGATCGGCCTGCACGACCTCCGCTTCAAGATCACCATCATCCCCAGGACCCTGTTTTGTTTTCGGGTTCCCT
CCGAATGAACCTGGACCCATTAGCCAGTACTCGGATGAAGAAGTCTGGACGTCCCTGGAGCTGGCCCCACCTGAA
GGACTTCGTGTCTAGCCCTTCCCTGACAAGCTAGACCATGAATGTGCAGAAGGCGGGGAGAACCTCAGTGTCTGGGCA
GCGCCAGCTTGTGTGCCTAGCCCGGGCCCTGCTGAGGAAGACGAAGATCCTTGTGTTGGATGAGGCCACGGCAGC
CGTGGACCTGGAAACGGACGACCTCATCCAGTCCACCATCCGGACACAGTTCGAGGACTGCACCGTCTCTACCAT
CGCCCCACGGCTCAACACCATCATGGACTACACAAGGGTGATCGTCTTGGACAAAGGAGAAATCCAGGAGTACGG
CGCCCCATCGGACCTCCTGCAGCAGAGAGGTCTTTTCTACAGCATGGCCAAAGACGCCGGCTTGGT**GTAG**CCCC
AGAGCTGGCATATCTGGTCAGAACTGCAGGGCCTATATGCCAGCGCCCAGGGAGGAGTCAGTACCCCTGGTAAAC
CAAGCCTCCCACACTGAAACCAAAACATAAAAAACCAAAACCCAGACAACCAAAACATATTCAAAGCAGCAGCCACC
GCCATCCGGTCCCCTGCCTGGAAGTGGCTGTGAAGACCCAGGAGAGACAGAGATGCGAACCACCCAAAAACACGCA
CACCTTGCCCTGGTGCCCTGAGACAGACACACAGCCTCACGCCCCAGGAATGCAAGTGGTTTTCTGGTGCTTC
CCACGGAGGAGTTTTGGCAGCCAGACTTCTGGAGGAATTGGTTGTATAGAAGATCCTAGTGACCAAATTCAGCCT
ACTGCCTCGGATCTCTCCAGCCGAAGTCTGTGGACTGCAAGTCTTTGAGATGCTTCTGGCTCCCATCACCTCTAA
CATCCTTGTCTGGGTCTACCAGGAACGCTTCATTTCCCTTGGGGCTGCAGTTTTGTGGTTGAGGGCCTGGAGAAA
ATCATTTTCTCCCCCTGGCAGTGTCCCAGGGCCCTGGATGGTCCTCTTACCAACATCTGGTCTTCCAGGCACTCA
AAAGCTGGGAACCAGCATCTCAGCGCCAGCTCTACCAGTTCTCGTTTTTGGGCCAGAGGCAGCCTCTGCACTCCCA
CGCCTGTCTCTCTGGAAGGGACCTGGTTGGACTAACGGCTAACCTGGACCTGGAAGTGTAGGGCCAGGGGATTGT
CTCAGGGCCGACGTTCCACCTGGGGCTTCCCTCCCCACCCACCCGACTCCAGGCTTTCCCTTTTTCTTTTGT
CAACATTGTAAGAACAATCAATGCTGTTATTACTGATCCCACCATGATTGATGTGGGGTAAATATTAAGGAGATG
GCCTCATGGGAATTTGACCTTGACTAGAAATAGAGACTGAGAGTGAGCAACCAGCTGGAAGGTACTATGCCAGTC
CTAGCAGAAAAATGTGTTAGGGGCCTGGCCCAAAGCAGTGTTGGTTGCTTACAGTGTTGATTGATTTTGTCTTT
TTTCTTACCACCTCTTTTCTTTCCCTCTCATGGTACCTGCTCATGGTTATGAAGCTTTCAAAGTAAAGAACACGA
AATAC

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FIGURE 600

MALRGFCSADGSDPLWDWNVTWNTSNPDFTKCFQNTVLVWVPCFYLWACFPFYFLYLSRHDRGYIQMTPLNKTKT
ALGFLLWIVCWADLFYSFWERSRGIFLAPVFLVSPDLLGITLLATFLIQLERRKGVQSSGIMLTFWLVALVCAL
AILRSKIMTALKEDAQVDLFRDITFYVYFSLLLIQLVLSCFSDRSPLFSETIHDNPNCPESSASFLSRITFWWIT
GLIVRGYRQPLEGSDLWSLNKEDTSEQVVPVLVKNWKKECAKTRKQPVKVYSSKDPAPQPKESSKVDANEEVEAL
IVKSPQKEWNPSLKFVLYKTFGPYFLMSFFFFKAHDLMMFSGPQILKLLIKFVNDTKAPDWQGYFYTVLLFVTAC
LQTLVLHQYFHICFVSGMRIKTAVIGAVYRKALVITNSARKSSTVGEIVNLMSVDAQRFMDLATYINMIWSAPLO
VILALYLLWLNLGPSVLAVVAVMVLMPVNAVMAKTKTYQVAHMKSKDNRIKLMNEILNGIKVLKLYAWELAFK
DKVLAIHQEELKVLKKSAYLSAVGTFTWVCTPFLASVSLKRLRIFLSHEELEPDSIERRPVKGGGTNSITVRNA
TFTWARSDPPTLNGITFSIPEGALVAVVGQVCGKSSLLSALLAEMDKVEGHVAIKGSVAYVPQQAWIQNDSLRE
NILFGCQLEEPYRSVIQACALLPDLEILPSGDRTEIGEKGVLNLSGGQKQRVSLARAVYSNADIYLFDDPLSAVD
AHVGKHIFENVIGPKGMLKNKTRILVTHSMSYLPQVDVIVMSGGKISEMGSYQELLARDGAFAEFLRTYASTEQ
EQDAEENGVTGVSGPGKEAKQOMENGMLVTD SAGKQLQRQLSSSSSYSGDISRHHNSTAELQKAEAKKEETWKLME
ADKAQTGQVKLSVYWDYMKAI GLFISFLSIFLFMCNHVSALASNYWLSLWTD DPIPNGTQEHTKVRLSVYGALGI
SQGIAVFGYSMAVSIGGILASRCLHVDLLHSILRSPMSFFERTPSGNLVNRF SKELDTVDSMIPEVIKMFMGSLF
NVIGACIVILLATPIAIIIPPLGLIYFFVQRFYVASSRQLKRLESVSRSPVYSHFNETLLGVSVIRAFEEQERF
IHQSDLKVDENQKAYYPSIVANRWLAVRLECVGNCIVLFAALFAVISRHLSAGLVGLSVSYSLQVTTYLNLVLR
MSSEMETNIVAVERLKEYSETEKEAPWQIQETAPPSSWPQVGRVEFRNYCLRYREDLDFVLRHINVTINGGEKVG
IVGRTGAGKSSLTLGLFRINESAEGEI IIDGINIAKIGLHDLRFKITIIPQDPVLFSGSLRMNLDFFSQYSDEEV
WTSLELAHLKDFVSALPDKLDHECAEGGENLSVGQRQLVCLARALLRKTILVLDEATAAVDLETDDLIQSTIRT
QFEDCTVLTIAHRLNTIMDYTRVIVLDKGEIQEYGAPSDLLQQRGLFYSMKADAGLV

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FIGURE 601

CGGGGACCCGGCTGCGGTGGCTGCGGGACTGACGAGAACTACTAAAGTTCCTGGGGAAGCAAAGTAGAATTTCA
TAAGAACAAAATGGATGGAGAGGAGAGAAAACCTATGGTGGCTGTGAAGGACCTGATGCCATGTATGTCAAATTGAT
ATCATCTGATGGCCATGAATTTATTGTAAAAAGAGAACATGCATTAACATCAGGCACGATAAAAGCCATGTTGAG
TGGCCCAGGTCAGTTTGCTGAGAACGAAACCAATGAGGTCAATTTTAGAGAGATACCTTCACATGTGCTATCGAA
AGTATGCATGTATTTTACGTACAAGGTTTCGCTACACTAACAGCTCCACCGAGATTCCTGAATTCCTCAATTGCACC
TGAAATTGCACTGGAACTGCTGATGGCTGCGAACTTCTTAGATTGTTAAAATAAAATAAATTATAATAAACTGTTA
ACTCTTTTCAGTATTTAATACCTGTAGTTCAGTTAGTAACTTTTTTCATATATAGCATGTTGCCTGTATGCAGTTG
AACTATATAAAGTTCATTGCAAAGCAGATTATCTTGTTTTTTTGCATAGCAATCAAAGTTGAAATTTGTTTGCTA
CATCAACAAATTAAGGACATTTTCACAACTGAGAAATAAACAAATATGCCAATTAAAAAAAAAAAAA

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FIGURE 602

MDGEEKTYGGCEGPDAMYVKLISSDGHEFIVKREHALTSGTIKAMLSGPGQFAENETNEVNFREIPSHVLSKVCM
YFTYKVRYTNSSTEIPEFPIAPEIALELLMAANFLDC

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FIGURE 603

CAGACCCCAGTTTCGCCGACTAAGCAGAAGAAAGATCAAAAACCGGAAAAGAGGAGAAGAGCAAACAGGCACCTTTG
AGGAACAATCCCCCTTTAACTCCAAGCCGACAGCGGTCTAGGAATTCAAGTTCAGTGCCTACCGAAGACAAAGGCG
CCCCGAGGGAGTGGCGGTGCGACCCAGGGCGTGGGCCCGGCCGCGGAGCCACACTGCCC GGCTGACCCGGTGG
TCTCGGACCATGTCTCCCGCCCCAAGACCCCCCGTTGTCTCCTGCTCCCCCTGCTCAGCTCGGCACCGCGCTC
GCCTCCCTCGGCTCGGCCCAAAGCAGCAGCTTCAGCCCCGAAGCCTGGCTACAGCAATATGGCTACCTGCCTCCC
GGGACCTACGTACCCACACACAGCGCTCACCCAGTCACTCTCAGCGGCCATCGCTGCCATGCAGAAGTTTTAC
GGCTTGCAAGTAACAGGCAAAGCTGATGCAGACACCATGAAGGCCATGAGGCGCCCCCGATGTGGTGTTCAGAC
AAGTTTGGGGCTGAGATCAAGGCCAATGTTTGAAGGAAGCGCTACGCCATCCAGGGTCTCAAATGGCAACATAAT
GAAATCACTTTCTGCATCCAGAATTACACCCCCAAGGTGGGCGAGTATGCCACATACGAGGCCATTGCAAGGCG
TTCCGCGTGTGGGAGAGTGCCACACCACTGCGCTTCCGCGAGGTGCCCTATGCCTACATCCGTGAGGGCCATGAG
AAGCAGGCCGACATCATGATCTTCTTTGCCGAGGGCTTCCATGGCGACAGCACGCCCTTCGATGGTGAGGGCGGC
TTCTGGCCCATGCCTACTTCCCAGGCCCAAACATTGGAGGAGACACCACTTTGACTCTGCCGAGCCTTGACT
GTCAGGAATGAGGATCTGAATGAAATGACATCTTCTGGTGGCTGTGCACGAGCTGGGCCATGCCCTGGGGCTC
GAGCATTCCAGTGACCCCTCGGCCATCATGGCACCCCTTTTACCAGTGGATGGACACGGAGAATTTTGTGCTGCC
GATGATGACCGCCGGGGCATCCAGCAACTTTATGGGGGTGAGTCAGGGTTCCCCACCAAGATGCCCCCTCAACCC
AGGACTACCTCCCGGCCCTTCTGTTCTGATAAAACCCAAAAACCCACCTATGGGCCCAACATCTGTGACGGGAAC
TTTGACACCGTGGCCATGCTCCGAGGGGAGATGTTTGTCTTCAAGGAGCGCTGGTTCTGGCGGGTGAGGAATAAC
CAAGTGATGGATGGATACCCAATGCCATTGGCCAGTTCTGGCGGGGCTGCCTGCGTCCATCAACACTGCCTAC
GAGAGGAAGGATGGCAAATTCGTCTTCTTCAAAGGAGACAAGCATTGGGTGTTTGATGAGGCGTCCCTGGAACCT
GGCTACCCCAAGCACATTAAGGAGCTGGGCCGAGGGCTGCCTACCGACAAGATTGATGCTGCTCTCTTCTGATG
CCCAATGGAAAGACCTACTTCTTCCGTGGAACAAGTACTACCGTTTCAACGAAGAGCTCAGGGCAGTGGATAGC
GAGTACCCCAAGAACATCAAAGTCTGGGAAGGGATCCCTGAGTCTCCAGAGGGTCATTTCATGGGCAGCGATGAA
GTCTTCACTTACTTCTACAAGGGGAACAAATACTGAAATTCACAACCAGAAGCTGAAGGTAGAACCGGGCTAC
CCCAAGTCAGCCCTGAGGGACTGGATGGGCTGCCCATCGGGAGGCCGCGCGGATGAGGGGACTGAGGAGGAGACG
GAGGTGATCATCATTGAGGTGGACGAGGAGGGCGGGCGGGTGTAGCGCGGCTGCCGTGGTGCTGCCCGTGCTG
CTGCTGCTCCTGGTGCTGGCGGTGGGCCTTGCAGTCTTCTTCTCAGACGCCATGGGACCCCCAGGCGACTGCTC
TACTGCCAGCGTTCCCTGCTGGACAAGGTCTTGACCGCCACCGCCGGCCCGCCACTCCTACCACAAGGACTTTGC
CTCTGAAGGCCAGTGGCAGCAGGTGGTGGTGGGTGGGCTGCTCCCATCGTCCCGAGCCCCCTCCCCGCAGCCTCC
TTGCTTCTCTGTGCCCTGGCTGGCCTCCTTACCCTGACCGCCTCCCTCCCTCCTGCCCCGGCATTGCATCTT
CCCTAGATAGGTCCCCTGAGGGCTGAGTGGGAGGGCGGCCCTTTCCAGCCTCTGCCCCTCAGGGGAACCTGTAG
CTTTGTGTCTGTCCAGCCCCATCTGAATGTGTTGGGGGCTCTGCACTTGAAGGCAGGACCCTCAGACCTCGCTGG
TAAAGGTCAAATGGGGTCATCTGCTCCTTTTCCATCCCCTGACATACCTTAACCTCTGAACTCTGACCTCAGGAG
GCTCTGGGCACTCCAGCCCTGAAAGCCCCAGGTGTACCCAATTGGCAGCCTCTCACTACTCTTTCTGGCTAAAG
GAATCTAATCTTGTGAGGGTAGAGACCCTGAGACAGTGTGAGGGGGTGGGGACTGCCAAGCCACCCTAAGACCT
TGGGAGGAAAACTCAGAGAGGGTCTTCGTTGCTCAGTCAGTCAAGTTCCTCGGAGATCTGCCTCTGCCTCACCTA
CCCCAGGGAACTTCCAAGGAAGGAGCCTGAGCCACTGGGGACTAAGTGGGCAGAAGAAACCTTGGCAGCCCTGT
GCCTCTCGAATGTTAGCCTTGATGGGGCTTTCACAGTTAGAAGAGCTGAAACCAGGGGTGCAGCTGTGAGGTAG
GGTGGGGCCGGTGGGAGAGGCCCGGGTCAGAGCCCTGGGGGTGAGCCTGAAGGCCACAGAGAAAGAACCTTGCCC
AAACTCAGGCAGCTGGGGCTGAGGCCCAAAGGCAGAACAGCCAGAGGGGGCAGGAGGGGACCAAAAAGGAAAAATG
AGGACGTGCAGCAGCATTGGAAGGCTGGGGCCGGGCAGGCCAGGCCAAGCCAAGCAGGGGGCCACAGGGTGGGCT
GTGGAGCTCTCAGGAAGGGCCCTGAGGAAGGCACACTTGCTCCTGTTGGTCCCTGTCTTGTGCTGCCAGGCAGCG
TGGAGGGGAAGGGTAGGGCAGCCAGAGAAAGGAGCAGAGAAGGCACACAAACGAGGAATGAGGGGCTTCACGAGA
GGCCACAGGGCCTGGCTGGCCACGCTGTCCCGGCTGCTCACCATCTCAGTGAGGGGCAGGAGCTGGGGCTCGCT
TAGGCTGGGTCCACGCTTCCCTGGTGCCAGCACCCCTCAAGCCTGTCTCACCAGTGGCCTGCCCTCTCGCTCCCC
CACCCAGCCCACCCATTGAAGTCTCCTTGGGCCACCAAGGTGGTGGCCATGGTACCGGGGACTTGGGAGAGTGA
GACCCAGTGGAGGGAGCAAGAGGAGAGGGATGTGCGGGGGGTGGGGCACGGGGTAGGGGAAATGGGGTGAACGGT
GCTGGCAGTTCGGCTAGATTTCTGTCTTGTGTTTTTTGTTTTGTTTAAATGTATATTTTTATTATAATTATTA
TATATGAATTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 604

MSPAPRPPRCLLLPLLTLTGTALASLGSAQSSSFSP EAWLQQYGYLPPGDLRTHQTQRSPQSLSA AIAAMQKFYGLQ
VTGKADADTMKAMRRPRCGVPDKFGAEIKANVRRKRYAIQGLKWQHNEITFCIQNYTPKVGEYATYEAIRKA FRV
WESATPLRFREVPYAYIREGHEKQADIMIFFAEGFHGDSTPFDGEGGFLAHAYFPGPNIGGDTHFDSAEPWTVRN
EDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVLPDDDRRGIQQLYGGESGFPTKMFPQPRTT
SRPSVPDKPKNPTYGPNICDGNFDTVAMLRGEMFVFKERWFWRVRNNQVMDGYPMPIGQFWRGLPASINTAYERK
DGKFVFFKGDKHWWFDEASLEPGYPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRGNKYRFRNEELRAVDSEYP
KNIKVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFNQKLKVEPGYPKSALRDWMGCPSSGGRPD EGTEETEVI
IIEVDEEGGGAVSAAAVLPLVLLLLLVLA VGLAVFFFRRHGTPRRLLYCQRSLLDKV

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FIGURE 605

GAATTCCGGGCTCCGGGGATGAGGTTCGCGGCCGGCGGGTCCCGCGCTGTTGCTGCTGCTGCTCTTCCTCGGAGCG
GCCGAGTCGGTGCGTCGGGCCCAGCCTCCGCGCCGCTACACCCCAGACTGGCCGAGCCTGGATTCTCGGCCGCTG
CCGGCCTGGTTCGACGAAGCCAAGTTTCGGGGTGTTTCATCCACTGGGGCGTGTTCTCGGTGCCCGCCTGGGGCAGC
GAGTGGTTCTGGTGGCACTGGCAGGGCGAGGGGGCGGCCGAGTACCAGCGCTTCATGCGCGACAACTACCCGCCC
GGCTTCAGCTACGCCGACTTCGGACCGCAGTTCCTGCGCGCTTCTTCCACCCGGAGGAGTGGGCCGACCTCTTC
CAGGCCGCGGGCGCCAAGTATGTAGTTTTGACGACAAAGCATCACGAAGGCTTCACAACTGGCCGAGTCCTGTG
TCTTGAACTGGAACTCCAAAGACGTGGGGCCTCATCGGGATTTGGTTGGTGAATTGGGAACAGCTCTCCGGAAG
AGGAACATCCGCTATGGACTATACTACTCTTAGAGTGGTTCCATCCACTCTATCTACTTGATAAGAAAAAT
GGCTTCAAAACACAGCATTTTGTGAGTGCAAAAAACAATGCCAGAGCTGTACGACCTTGTTAACAGCTATAAACCT
GATCTGATCTGGTCTGATGGGGAGTGGGAATGTCCTGATACTTACTGGAATCCACAAATTTTCTTTTCATGGCTC
TACAATGACAGCCCTGTCAAGGATGAGGTGGTAGTAAATGACCGATGGGGTCAGAACTCTTCTGTCAACCATGGA
GGATACTATAACTGTGAAGATAAATTCAAGCCACAGAGCTTGCCAGATCACAAGTGGGAGATGTGCACCAGCATT
GACAAGTTTTCTGGGGCTATCGTCGTGACATGGCATTGTCTGATGTTACAGAAGAATCTGAAATCATTTCGGAA
CTGGTTCAGACAGTAAGTTTGGGAGGCAACTATCTTCTGAACATTGGACCAACTAAAGATGGACTGATTGTTCCC
ATCTTCCAAGAAAGGCTTCTTGCTGTTGGGAAATGGCTGAGCATCAATGGGGAGGCTATCTATGCCTCCAAACCA
TGGCGGGTGCAATGGGAAAAGAACACAACATCTGTATGGTATACCTCAAAGGGATCGGCTGTTTATGCCATTTTT
CTGCACTGGCCAGAAAATGGAGTCTTAAACCTTGAATCCCCATAACTACCTCAACTACAAAGATAACAATGCTG
GGAATTCAGGAGATCTGAAGTGGTCCACAGATCCAGATAAAGGTCTCTTCATCTCTTACCCCAGTTGCCACCC
TCTGCTGTCCCCGAGAGTTTGCTTGGACTATAAAGCTGACAGGAGTGAAGTAATCAATTTGAGTGCAAGAAGAAA
GAGGCGCTGCTCACTGTTTTCTGCTTCAGTTTTTCTCTTATAGTACCATCACTATAATCAACGAACCTCTCTTC
TCCACCCAGAGATGGCTTTTCCAACACATTTTAATTAAAGGAAGTACATTACCTGATGTCTAAATGGACC
AAAGATCTGAGATCCATTGTGATTATATCTGTATCAGGTCAGCAGAAGAAGGAAGTACAGTGAAGTCTGAGT
TCATCAATTCTAATATTTGGAAATTATCTACAATGGAATCTTCCCTCTGTTCTCTGATAACCTACTTGCTTACTC
AATGCCTTTAAGCCAAGTCACCTGTTGCCTATGGGAGGAGGTGGAAGGATTTGGCAAGCTCAACCACATGCTAT
TTAGTTAGCATCAGTTGTACCAACAGTCTTCTGCAAAGGGCAGGAGAGCTTTGGGGGAAAGGAAAAGGCTTAC
CAGGCTGCTATGGTCAACTCTTCAGAAATTTTCAGAGCAATCTAAAAGCGCCAAAATTCGCTATGTTTACAGTGA
TACTATTAAGAAAATGAATGTGATTCTGCTCTGTCTTTTTAAGTATGATCAAATAAA

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FIGURE 606

MRSRPAGPALLLLLLLFLGAAESVRRSQPPRRYTPDWPSLDSRPLPAWFDEAKFGVFIHWGVFSVPAWGSEWFWWH
WQGEGRPQYQRFMRDNYPPGFSYADFGPQFTARFFHPPEEWADLFQAAGAKYVVLTTKHHEGFTNWPSPVSWNWNNS
KDVGPHRDLVGELGTALRKRNIRYGLYHSLLEWFHPLYLLDKKNGFKTQHFVSAKTMPELYDLVNSYKPDLIWSD
GEWECPDITYWNSTNFLSWLYNDSPVKDEVVVNDRWGQNSSCHHGGYNCEDKFKPQSLPDHKWEMCTSIDKFSWG
YRRDMALSDVTEESEIIISELVQTVSLGGNYLLNIGPTKDGLIVPIFQERLLAVGKWLSINGEAIYASKPWRVQWE
KNTTSVWYTSKGSAVYAIFLHWPENGVLNLESPITTTSTTKITMLGIQGDLDKWSTDPDKGLFISLPQLPPSAVPAE
FAWTIKLTGVK

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FIGURE 607

CCCGCCTTCCATACCTCCCCGGCTCCGCTCGGTTCCCTGGCCACCCCGCAGCCCCTGCCAGGTGCC**ATG**GCCGCA
TTGTACCGCCCTGGCCTGCGGCTTAAGTGGCATGGGCTGAGCCCCTTGGGCTGGCCATCATGCCGTAGCATCCAG
ACCCTGCGAGTGCTTAGTGGAGATCTGGGCCAGCTTCCCACTGGCATTTCGAGATTTTGTAGAGCACAGTGCCCGC
CTGTGCCAACCAGAGGGCATCCACATCTGTGATGGAAGTGGGCTGAGAATACTGCCACACTGACCCTGCTGGAG
CAGCAGGGCCTCATCCGAAAGCTCCCCAAGTACAATAACTGCTGGCTGGCCCGCACAGACCCCAAGGATGTGGCA
CGAGTAGAGAGCAAGACGGTGATTGTAAGTCCCTTCTCAGCGGGACACGGTACCACTCCCGCCTGGTGGGGCCTGT
GGGCAGCTGGGCAACTGGATGTCCCCAGCTGATTTCCAGCGAGCTGTGGATGAGAGGTTTCCAGGCTGCATGCAG
GGCCGCACCATGTATGTGCTTCCATTAGCATGGGTCCTGTGGGCTCCCGCTGTCCCGCATCGGGGTGCAGCTC
ACTGACTCAGCCTATGTGGTGGCAAGCATGCGTATTATGACCCGACTGGGGACACCTGTGCTTCAGGCCCTGGGA
GATGGTGACTTTGTCAAGTGTCTGCACTCCGTGGGCCAGCCCCTGACAGGACAAGGGGAGCCAGTGAGCCAGTGG
CCGTGCAACCCAGAGAAAACCTGATTGGCCACGTGCCCCGACCAGCGGGAGATCATCTCCTTCGGCAGCGGCTAT
GGTGGCAACTCCCTGCTGGGCAAGAAGTGCTTTGCCCTACGCATCGCCTCTCGGCTGGCCCGGGATGAGGGCTGG
CTGGCAGAGCACATGCTGATCCTGGGCATCACCAGCCCTGCAGGGAAGAAGGCGCTATGTGCAGCCGCCTTCCCT
AGTGCTGTGGCAAGACCAACCTGGCTATGATGCGGCCTGCACTGCCAGGCTGGAAAGTGGAGTGTGTGGGGGAT
GATATTGCTTGGATGAGGTTTGTACAGTGAAGGTCGACTCCGGGCCATCAACCCTGAGAACGGCTTCTTTGGGGTT
GCCCCGTGGTACCTCTGCCACCACCAATCCCAACGCCATGGCTACAATCCAGAGTAACACTATTTTTTACCAATGTG
GCTGAGACCAGTGATGGTGGCGTGTACTGGGAGGGCATTGACCAGCCTCTTCCACCTGGTGTACTGTGACCTCC
TGGCTGGGCAAACCTTGAAACCTGGTGACAAGGAGCCCTGTGCACATCCCAACTCTCGATTTTGTGCCCGGGCT
CGCCAGTGCCCCATCATGGACCCAGCCTGGGAGGCCCCAGAGGGTGTCCCCATTGACGCCATCATCTTTGGTGGC
CGCAGACCCAAAGGGGTACCCCTGGTATACGAGGCCCTCAACTGGCGTCATGGGGTGTGTGTGGGCAGAGCCATG
CGCTCTGAGTCCACTGCTGCAGCAGAACACAAAGGGAAGATCATCATGCACGACCCATTGCCATGCGGCCCTTT
TTTGGCTACAACCTCGGGCACTACCTGGAACACTGGCTGAGCATGGAAGGGCGCAAGGGGGCCAGCTGCCCCGT
ATCTTCCATGTCAACTGGTTCCGGCGTGACGAGGCAGGGCACTTCTGTGGCCAGGCTTTGGGGAGAATGCTCGG
GTGCTAGACTGGATCTGCCGGCGGTTAGAGGGGGAGGACAGTGCCCGAGAGACACCCATTGGGCTGGTGCCAAAG
GAAGGAGCCTTGATCTCAGCGGCCTCAGAGCTATAGACACCACTCAGCTGTTCTCCCTCCCCAAGGACTTCTGG
GAACAGGAGGTTCTGTGACATTCTGGAGCTACCTGACAGAGCAGGTCAACCAGGATCTGCCCCAAGAGGTGTTGGCT
GAGCTTGAGGCCCTGGAGAGACGTGTGCACAAAAT**TGA**CCTGAGGCCCTAGTCTAGCAAGAGGACATAGCACCT
CATCTGGGAATAGGGAAGGCACCTTGACAGAAAATATGAGCAATTGATATTAACATAACATCTTCAATGTGCCATAG
ACCTTCCCACAAAGACTGTCCAATAATAAGAGATGCTTATCTATTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 608

MAALYRPGLRLNWHGLSPLGWPSCRSIQTLRVLSGDLGQLPTGIRDFVEHSARLCQPEGIHICDGTEAENTATLT
LLEQQGLIRKLPKYNNCWLARTDPKDVARVESKTVIVTPSQRD TVPLPPGGACGQLGNWMSPADFQRAVDERFPG
CMQGR TMYVLPFSMGPVGSPLSRIGVQLTDSAYVVASMRIMTRLGTPVLQALGDGDFVKCLHSVGQPLTGQGEPV
SQWPCNPEKTLIGHVPDQREIISFGSGYGGNSLLGKKCFALRIASRLARDEGWLAEHMLILGITS PAGKKALCAA
AFP SACGKTNLAMMRPALPGWKVECVGDDIAWMRFDSEGRRLRAINPENGFFGVAPGTSATTNPNAMATIQSNTIF
TNVAETSDGGVYWEGIDQPLPPGVTVTSWLGKPWKPGDKEPCAHPNSRFCAPARQCPIMDPAWEAPEGVPIDAI
FGGRRPKGVPLVYEAFNWRHGVFVGRAMRSESTAAAEHKGKIIMHDPFAMRPF FGYNF GHYLEHWLSMEGRKGAQ
LPRI FHVNWFRDEAGHFLWPGFGENARVLDWICRRLEGEDSARETPIGLVPKEGALDLSGLRAIDTTQLFSLPK
DFWEQEVRDIRSYLTEQVNQDLPKEVLAELEALERRVHKM

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FIGURE 609

GGCGAGAGGCGGGCTGAGGCGGCCAGCGGCGGCAGGTGAGGCGGAACCAACCCCTCCTGGCCATGGGAGGGGCCG
TGGTGGACGAGGGCCCCACAGGCGTCAAGGCCCTTGACGGCGGCTGGGGCTGGGCCGTGCTCTTCGGCTGTTTCG
TCATCACTGGCTTCTCCTACGCCTTCCCCAAGGCCGTCAGTGTCTTCTTCAAGGAGCTCATACAGGAGTTTGGGA
TCGGCTACAGCGACACAGCCTGGATCTCCTCCATCCTGCTGGCCATGCTCTACGGGACAGGTCCGCTCTGCAGTG
TGTGCGTGAACCGCTTTGGCTGCCGGCCCCGTCATGCTTGTGGGGGTCTCTTTGCGTCGCTGGGCATGGTGGCTG
CGTCCTTTTGGCGGAGCATCATCCAGGTCTACCTCACCCTGGGGTCATCACGGGGTTGGGTTTGGCACTCAACT
TCCAGCCCTCGCTCATCATGCTGAACCGCTACTTCAGCAAGCGGCGCCCCATGGCCAACGGGCTGGCGGCAGCAG
GTAGCCCTGTCTTCTGTGTGCCCTGAGCCCGCTGGGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGGCGGCT
TCCTCATCCTGGGCGGCCTGCTGCTCAACTGCTGCGTGTGTGCCGCACTCATGAGGCCCTGGTGGTCACGGCCC
AGCCGGGCTCGGGGCCGCGCGACCCCTCCCGGCGCCTGCTAGACCTGAGCGTCTTCCGGGACCGCGGCTTTGTGC
TTTACGCCGTGGCCGCTCGGTTCATGGTGTGGGGCTCTTCGTCCCGCCCGTGTTCGTGGTGAGCTACGCCAAGG
ACCTGGGCGTGCCGACACCAAGCCGCTTCTGCTCACCATCCTGGGCTTCATTGACATCTTCGCGCGGCGCGG
CCGCGGGCTTCGTGGCGGGCTTGGGAAGGTGCGGCCCTACTCCGTCTACCTCTTCAGCTTCTCCATGTTCTTCA
ACGGCCTCGCGGACCTGGCGGGCTCTACGGCGGGCGACTACGGCGGCCTCGTGGTCTTCTGCATCTTCTTTGGCA
TCTCCTACGGCATGGTGGGGGCCCTGCAGTTCGAGGTGCTCATGGCCATCGTGGGCACCCACAAGTTCTCCAGTG
CCATTGGCCTGGTGTGCTGATGGAGGCGGTGGCCGTGCTCGTCGGGCCCCCTTCGGGAGGCAAACTCCTGGATG
CGACCCACGTCTACATGTACGTGTTTCATCCTGGCGGGGGCCGAGGTGCTCACCTCCTCCCTGATTTTGCTGCTGG
GCAACTTCTTCTGCATTAGGAAGAAGCCCCAAAGAGCCACAGCCTGAGGTGGCGGCCGCGGAGGAGGAGAAGCTCC
ACAAGCCTCCTGCAGACTCGGGGGTGGACTTTCGGGGAGGTGGAGCATTTCTGAAGGCTGAGCCTGAGAAAAACG
GGGAGGTGGTTACACCCCCGGAACAAGTGTCTTCAGTGGCTGGGCGGGGCCGGCAGGCACAGGGAGGAGGTACAG
AAGCCGGCAACGCTTGCTATTTATTTTACAACTGGACTGGCTCAGGCAGGGCCACGGCTGGGCTCCAGCTGCCG
GCCCAGCGGATCGTCGCCCATCAGTGTTTTGAGGGGGAAGGTGGCGGGGTGGGAACCGTGTCAATCCAGAGTGG
ATCTGCGGTGAAGCCAAGCCGCAAGGTTACAAGGCATCCTCACCAGGGGCCCCGCTGCTGCTCCCAGGTGGCCT
GCGGCCACTGCTATGCTCAAGGACCTGGAAACCCATGCTTCGAGACAACGTGACTTTAATGGGAGGGTGGGTGGG
CCGACAGACAGGCTGGCAGGGCAGGTGCTGCGTGGGGCCCTCTCCAGCCCGTCCTACCCTGGGCTCACATGGGGCC
TGTGCCCCACCCCTCTTGAGTGTCTTGGGGACAGCTCTTCCACCCCTGGAAGATGGAATAAACCTGCGTGTGGG
TGGAGTGTCTCGTGCCGAATTCAAAAAGCTT

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FIGURE 610

MGGAVVDEGPTGVKAPDGGWGWAVLFGCFVITGFSYAFPKAVSVFFKELIQEFGIGYSdTAWISSILLAMLYGTG
PLCSVCVNRFGCRPVMLVGGLFASLGMVAASFCSI IQVYLTTGVITGLGLALNFQPSLIMLNRYFSKRRPMANG
LAAAGSPVFLCALSPLGQLLQDRYGWRGGFLILGGLLLNCCVCAALMRPLVVTAQPGSGPPRPSRRLDLSVFRD
RGFVLYAVAASVMVLGLFVPPVFVVSYAKDLGVPTKAAFLLTILGFIDIFARPAAGFVAGLGKVRPYSVYLFSF
SMFFNGLADLAGSTAGDYGGLVVFCIFFGISYGMVGALQFEVLMAIVGTHKFSSAIGLVLLMEAVAVLVGPPSGG
KLLDATHVYMYVFILAGAEVLTSSLILLGNFFCIRKKPKEPQPEVAAAEKKLHKPPADSGVDLREVEHFLKAE
PEKNGEVVHTPETS

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FIGURE 611

AGTCCTGCTCTCCGCACGCCACCTTAGGCCCGCAGCCGTGCCGGGTGCTCTTCAGCATGTCCTTCATCCCCGGTGG
CCGAGGATTCCGACTTCCCCATCCACAACCTGCCCTACGGCGTCTTCTCGACCAGAGGCGACCCAAGACCGAGGA
TAGGTGTGGCCATTGGCGACCAGATCCTGGACCTCAGCATCATCAAGCACCTCTTTACTGGTCCTGTCTCTCCA
AACACCAGGATGTCTTCAATCAGCCTACACTCAACAGCTTCATGGGCCTGGGTGAGGCTGCCTGGAAGGAGGCGA
GAGTGTCTTGCAGAACTTGCTGTCTGTGAGCCAAGCCAGGCTCAGAGATGACACCGAACTTCGGAAGTGTGCAT
TCATCTCCCAGGCTTCTGCCACGATGCACCTTCCAGCCACCATAGGAGACTACACAGACTTCTATTCTCTCGGC
AGCATGCTACCAACGTCGGAATCATGTTCAAGGACAAGGAGAAATGCGTTGATGCCAAATTGGCTGCACTTACCAG
TGGGCTACCATGGCCGTGCCTCCTCTGTCTGTTGGTGTCTGGCACCCCAATCCGAAGGCCCATGGGACAGATGAAAC
CTGATGACTCTAAGCCTCCCGTATATGGTGCCTGCAAGCTCTTGGACATGGAGCTGGAAATGGCTTTTTTTGTAG
GCCCTGGAAACAGATTGGGAGAGCCGATCCCCATTTCCAAGGCCCATGAGCACATTTTTGGAATGGTCCTTATGA
ACGACTGGAGTGCACGAGACATTCAGAAGTGGGAGTATGTCCCTCTCGGGCCATTCTTGGGAAGAGTTTTGGGA
CCACTGTCTCTCCGTGGGTGGTGCCCATGGATGCTCTCATGCCCTTTGCTGTGCCCAACCCGAAGCAGGACCCCA
GGCCCTGCCGTATCTGTGCCATGACGAGCCCTACACATTTGACATCAACCTCTCTGTAACTGAAAGGAGAAG
GAATGAGCCAGGCGGCTACCATATGCAAGTCCAATTTTAAAGTACATGTACTGGACGATGCTGCAGCAGCTCACTC
ACCACTCTGTCAACGGCTGCAACCTGCGGCCGGGGGACCTCCTGGCTTCTGGGACCATCAGCGGGCCGGAGCCAG
AAAACTTCGGCTCCATGTTGGAAGTGTCTGTGGAAGGGAACGAAGCCCATAGACCTGGGGAATGGTCAGACCAGGA
AGTTTCTGCTGGACGGGGATGAAGTCATCATAACAGGGTACTGCCAGGGGGATGGTTACCGCATCGGCTTTGGCC
AGTGTGCTGGAAAAGTGCTGCCTGCTCTCCTGCCATCATGAGATTTTCTCTGCTCTTCTGGAAACAAAGGGCTCA
AGCACCCCTTTCAACCCTGTGACTGGGGTCTCCTCGGGCTGTAGGCCTGGTCCGCCATTCACTGACAAATAAA
GCCATTGTGCTCTGAGGCCTGC

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FIGURE 612

MSFIPVAEDSDFPIHNLPGVFSTRGDPRPRIGVAIGDQILDLSIIKHLFTGPVLSKHQDVFNQPTLNSFMGLGQ
AAWKEARVFLQNLLSVSQARLRDDTELKCAFISQASATMHLPATIGDYTDFYSSRQHATNVGIMFRDKENALMP
NWLHLPVGYHGRASSVVVSGTPIRRPMGQMKPDDSKPPVYGACKLLDMELEMAFFVGPNGRLGEPPIISKAHEHI
FGMVLMDWSARDIQKWEYVPLGPFLLGKSFGTTVSPWVVPMDALMPFAVPNPKQDPRPLPYLCHDEPYTFDINLS
VNLKGEGMSQAATICKSNFKYMYWTMLQQLTHHSVNGCNLRPGDLLASGTISGPEPENFGSMLELSWKGTCPIDL
GNGQTRKFLLDGDEVIIITGYCQGDGYRIGFGQCAGKVLFPALLPS

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FIGURE 613

CTGAGGCCCCACGCAGGGCCTAGGGTGGGAAGATGGCAGGTGGGGGCGGCGACCTGAGCACCAGGAGGCTGAATGA
ATGTATTTTACCAGTAGCAAATGAGATGAACCATCTTCTGCACACAGCCACGATTTGCAAAGGATGTTTACGGA
AGACCAGGGTGTAGATGACAGGCTGCTCTATGACATTGTATTCAAGCACTTCAAAGAAATAAGGTGGAGATTTT
AAATGCAATAAAAAAGACATTTCCATTCCCTCGAGGGCCTCCGTGATCGTGATCTCATCACAAATAAAATGTTTGA
AGATTCTCAAGATTCTTGTAGAAACCTGGTCCCTGTACAGAGAGTGGTGTACAATGTTCTTAGTGAAGTGGAGAA
GACATTTAACCTGCCAGTTCTGGAAGCACTGTTTCAAGCATGTCAACATGCAGGAATACCCCGATTTAATTCACAT
TTATAAAGGCTTTGAAAATGTAATCCATGACAAATTGCTCTCCAAGAAAGTGAAGAAGAAGAGAGGGAGGAGAG
GTCTGGCCTCCAACCTAAGTCTTGAACAAGGAAGTGGTGAAGTCTTTTTCGAAGCCTGACTTGGCCACCTTCGGG
TTCCCCATCTCATGCTGGTACAACCCACCTGAAAATGGACTCTCAGAGCACCCCTGTGAAACAGAACAGATAAA
TGCAAAGAGAAAAGATACAACCAAGTGACAAAGATGATTGCTAGGAAGCCAACAACAATGAACAATGTGCTCA
AAAGGCTGAGCCAACAGAGTCTTGCGAACAAATTGCTGTCCAAGTGAATAATGGGGATGCTGGAAGGGAGATGCC
CTGCCCCGTGCCCCGTGTGATGAAGAAAGCCAGAGGCAGAGCTACACAACCATGGAATCCAAATTAATTCCTGTTT
TGTGCGACTGGTGGATATAAAAAAGGAAAAGCCATTTTCTAATTCAAAAGTTGAGTGCCAAGCCCAAGCAAGAAC
TCATCATAACCAGGCATCTGACATAATAGTCATCAGCAGTGAGGACTCTGAAGGATCCACTGACGTTGATGAGCC
CTTAGAAGTCTTCATCTCAGCACCGAGAAGTGAGCCTGTGATCAATAATGACAACCCCTTTAGAATCAAATGATGA
AAAGGAGGGCCAAGAAGCCACTTGCTCACGACCCAGATTGTACCAGAGCCCATGGATTTTCAAGAAATTAATCTAC
ATTCAGAGAAAAGTTTTAAGAAAAGAGTGATAGGACAAGACCACGACTTTTTCAGAATCCAGTGAGGAGGAGGCC
CGCAGAAGCCTCAAGCGGGGCACTGAGAAGCAAGCATGGTGAGAAGGCTCCTATGACTTCTAGAAGTACATCTAC
TTGGAGAATACCCAGCAGGAAGAGACGTTTTCAGCAGTAGTGACTTTTTCAGACCTGAGTAATGGAGAAGAGCTTCA
GGAAACCTGCAGCTCATCCCTAAGAAGAGGGTTCAGGATCACAGCCACAAGAACCTGAAAATAAGAAGTGCTCCTG
TGTCATGTGTTTTCCAAAAGGTGTGCCAAGAAGCCAAGAAGCAAGGACTGAAAGTAGTCAAGCATCTGACATGAT
GGATAACCATGGATGTTGAAAACAATTCTACTTTGGAAAAACACAGTGGGAAAAGAAGAAAAAGAGAAGGCATAG
ATCTAAAGTAAATGGTCTCCAAAGAGGGGAGAAAGAAAGACAGACCTAGAAAACATTTAACTCTGAATAACAAAGT
CCAAAAGAAAAAGATGGCAACAAAGAGGAAGAAAAGCCAACACTAGACCTTTGAAAAGAAGAAGAAAAAGAGGTCC
AAGAATTTCCCAAAGATGAAAATATTAATTTTAAACAATCTGAACTTCCTGTGACCTGTGGTGAGGTGAAGGGCAC
TCTATATAAGGAGCGATTCAAACAAGGAACCTCAAAGAAGTGTATACAGAGTGAGGATAAAAAGTGGTTCACTCC
CAGGGAATTTGAAATTGAAGGAGACCGCGGAGCATCCAAGAACTGGAAGCTAAGTATACGCTGCGGTGGATATAC
CCTGAAAGTCTGATGGAGAACAATTTCTGCCAGAACCACCAAGCACAAAGAAAAAGAGAATACTGGAATCTCA
CAACAATACCTTAGTTGACCCTTGTGAGGAGCATAAGAAGAAGAACCCAGATGCTTCAGTCAAGTTCTCAGAGTT
TTTAAAGAAGTGCTCAGAGACATGGAAGACCATTTTGTCTAAAGAGAAAGGAAAATTTGAAGATATGGCAAAGGC
GGACAAGGCCCCATTATGAAAGAGAAATGAAAACCTATATCCCTCCTAAAGGGGAGAAAAAAAAGAAAGTTCAAGGA
TCCCAATGCACCCAAGAGGCCCTCCTTGGCCCTTTTTCTGTTCTGCTCTGAGTATCGCCCCAAAATCAAAGGAGA
ACATCCTGGCCTGTCCATTGATGATGTTGTGAAGAACTGGCAGGGATGTGGAATAACACCGCTGCAGCTGACAA
GCAGTTTTATGAAAAGAAGGCTGCAAAGCTGAAGGAAAAATACAAAAAGGATATTGCTGCATATCGAGCTAAAGG
AAAGCCTAATTCAGCAAAAAAGAGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGGAAGAGGAAGAAGATGA
AGAGGATGAACAAGAGGAGGAAAATGAAGAAGATGATGATAAATAAGTTGCTTCTAGTGACGTTTTTTTTCTTGTC
TATAAAGCATTTAAGCTGCCGTGTACACAACCTCACTCCTTTTTAAAGAAAAAACTTCAACGTAAGACTGTGTAAGA
TTTGTTTTTTAAACCGTACACTGTGTTTTTTTTGTATAGTTAAACCACTACCGAATGTGTCTTCAGATAGCCCTGTCC
TGGTGGTATTTAGCCACTAACCTTTGCCTGGTACAGTATGGGGGTGTAAATTGGCATGGAATTTTAAAGCAGGT
TCTTGTTAGTGACAGCACAAATTAGTTGTATAGGAGGATGGTAGTTTTTTTACCTTCAGTTGTCTCTGATGTAG
CTTATACAAAACATTTGTTGTTCTGTAACTGAATGCCACTCTGTAATTGCAAAAAAAAACAGTTGCAGCTG
TTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTAAAAAACCGTATGAGGGAAGTGTGTAGACAAGG
TACCAGGTCAGTCTTCTTCCATGTTCTATTAGCTCCACAAAGCCAATCTCAATCCCTCAAACAATCTTGTGATA
CTTGAAGATATGACACTCTAGTCAAAGCCTTGGTAAAATAATCAGTGTTTCCAATCTGTCTGTTACAAAAGAAA
CAGATTATTATTGAACCTTATGCAAATAACCATTTGTCATAAGAATGTTTATGAATAGTTTCCAATTTATGGCAAT
TCATGTAGAGAGAGAAAAGTAAGTGTGTTTGGTGTGCTCACAAAAGTCTACTTTACCTAAGGGCTGTCAGATATA
AGTAACTTAAAGAAAGAGAAAGTTTTCTTGACTTTTGAAGCAAAAATATGAAAAGAATCGGCAATGTTTCAAACA
AAAAGTCATAAAAGTCACCTTATTCCTCCATCAAAAAAAAACCAAAAAA

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FIGURE 614

MAGGGGDLSTRRLNECISPVANEMNHLPAHSHDLQRMFTEDQGVDDRLLYDIVFKHFKRNKVEISNAIKKTFPFL
EGLRDRDLITNKMFEDESQDSCRNLVPVQVRVYNVLSELEKTFNLPVLEALFSDVNMQEYPDLIHIYKGFENVIH
KLPLQESEEEEEEREERSGLQLSLEQGTGENSFRLTWPPSGSPSHAGTTPPENGLSEHPCETEQINAKRKDTTSDK
DDSLGSQQTNEQCAQKAEPTECEQIAVQVNNGDAGREMPCLPCDEESPEAELHNHGIQINSCSVRLVDIKKEK
PFSNSKVECQAQARTHNNQASDIIVISSEDESEGSTDVDEPLEVFISAPRSEPVINNDNPLESNDEKEGQEATCSR
PQIVPEPMDFRKLSTFRESFKKRVIGQDHDFSESSEEEAPAEASSGALRSKHGEKAPMTSRSTSTWRIPSRKRRE
SSSDFSDLSNGEELQETCSSSLRRGSGSQPQEPENKKCSCVMCFPKGVPRSQEARTESSQASDMMDTMDVENNST
LEKHSGKRRKKRRHRSKVNGLQGRKKDRPRKHLTLNNKVQKKRWQQRGRKANTRPLKRRRKRGPRIKPDENINF
KQSELPVTCGEVKGTLYKERFKQGTSKKCIQSEDKKWFTPREFEIEGDRGASKNWKLSIRCGGYTLKVLNENKFL
PEPPSTRKKRILESHNNTLVDPCEEHKKKNPDASVKFSEFLKKCSETWKTIFAKEKGKFEDMAKADKAHYEREMK
TYIPPKGEKKKKFKDPNAPKRPLAFFLCSEYRPKIKGEHPGLSIDDVVKKLAGMWNNTAAADKQFYEKKAACL
KEKYKKDIAAYRAKGKPNsAKKRvVKAekSKKKKEEEDEEDEQEENEEDDDK

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FIGURE 615

GAGGCAGTTCTGTTGCCACTCTCTCTCCTGTCAAATGATGGATCTCAGAAATACCCCAGCCAAATCTCTGGACAAG
TTCATTGAAGACTATCTCTTGCCAGACACGTGTTTCCGCATGCAAATCGACCATGCCATTGACATCATCTGTGGG
TTCTTGAAGGAAAGGTGCTTCCGAGGTAGCTCCTACCCTGTGTGTGTGTCCAAGGTGGTAAAGGGTGGCTCCTCA
GGCAAGGGCACCACCCTCAGAGGCCGATCTGACGCTGACCTGGTTGTCTTCTCAGTCCTCTCACCACCTTTTCAG
GATCAGTTAAATCGCCGGGGAGAGTTTCATCCAGGAAATTAGGAGACAGCTGGAAGCCTGTCAAAGAGAGAGAGCA
CTTTCCTGTAAGTTTGAGGTCCAGGCTCCACGCTGGGGCAACCCCGTGCGCTCAGCTTCGTACTGAGTTCGCTC
CAGCTCGGGGAGGGGGTGGAGTTCGATGTGCTGCCTTTCATGCTTGGGTGAGTTGACTGGCAGCTATAAA
CCTAACCCCAAATCTATGTCAAGCTCATCGAGGAGTGCACCGACCTGCAGAAAGAGGGCGAGTTCTCCACCTGC
TTCACAGAACTACAGAGAGACTTCCTGAAGCAGCGCCCCACCAAGCTCAAGAGCCTCATCCGCCTAGTCAAGCAC
TGGTACCAAAATTGTAAGAAGAAGCTTGGAAGCTGCCACCTCAGTATGCCCTGGAGCTCCTGACGGTCTATGCT
TGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCCCAAGGATTTTCGGACGGTCTTGGAATTAGTCATAAAC
TACCAGCAACTCTGCATCTACTGGACAAAGTATTATGACTTTAAAAACCCATTATTGAAAAGTACCTGAGAAGG
CAGCTCACGAAACCCAGGCCTGTGATCCTGGACCCGGCGGACCCTACAGGAACTTGGGTGGTGGAGACCCAAAG
GGTTGGAGGCAGCTGGCACAAGAGGCTGAGGCCTGGCTGAATTACCCATGCTTTAAGAATTGGGATGGGTCCCCA
GTGAGCTCCTGGATTCTGCTGGCTGAAAGCAACAGTACAGACGATGAGACCGACGATCCCAGGACGTATCAGAAA
TATGGTTACATTGGAACACATGAGTACCCTCATTTCTCTCATAGACCCAGCACGCTCCAGGCAGCATCCACCCCA
CAGGCAGAAGAGGACTGGACCTGCACCATCCTCTTGAATGCCAGTGCATCTTGGGGGAAAGGGCTCCAGTGTTATC
TGGACCAGTTTCCTTCAATTTTCAGGTGGGACTCTTGATCCAGAGAAGACAAAGCTCCTCAGTGAGCTGGTGTATAA
TCCAAGACAGAACCCAAAGTCTCCTGACTCCTGGCCTTCTATGCCCTCTATCCTATCATAGATAACATTCTCCACA
GCCTCACTTCATTCCACCTATTCTCTGAAAATATTCCCTGAGAGAGAACAGAGAGATTTAGATAAGAGAATGAAA
TTCCAGCCTTGACTTTCTTCTGTGCACCTGATGGGAGGGTAATGTCTAATGTATTATCAATAACAATAAAAAATAA
AGCAAAATACCAAAAA

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FIGURE 616

MMDLRNTPAKSLDKFIEDYLLPDTCFRMQIDHAIDIICGFLKERCFRGSSYPVCVSKVVKGSSGKGTTLRGRSD
ADLVVFLSPLTTTFQDQLNRRGEFIQEIRRQLEACQRERALS VKFEVQAPRWGNPRALS FVLSSLQLGEGVEFDVL
PAFDALGQLTGSYKPNPQIYVKLIEECTDLQKEGEFSTCFTELQRDFLKQRPTKLKSLIRLVKHWYQNCKKKLGK
LPPQYALELLTVYAWERGSMKTHFNTAQGFRTVLELVINYQQLCIYWTKYDFKNPIIEKYLRRLTKPRPVILD
PADPTGNLGGGDPKGWRQLAQEAEAWLNYP CFKNWDGSPVSSWILLAESNSTDDETD DPT YQKYGYIGTHEYPH
FSHRPSTLQAASTPQAEEDWTCTIL

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FIGURE 617

GGGGGGGTAGAGGAAGCCGTGAGGCCGGAGCTTAGGTCGGGAAGGGATGGATCGCTGAGCCGATAGCGTCCGCTA
GGCTGTCTGCCTCGGTACCTGTTACTGCTGCTACTTCCTCGTTTGACACCTTCCTGGAATCTCTCTTGATTTTTG
AGGAAATACCTAGTAACAAACATGACTGAGTTCTGGCTTATATCTGCTCCTGGGGAGAAAACCTGTCAGCAAACA
TGGGAGAAATTGCATGCGGCAACTTCAAAGAACAATAATCTTGCTGTCACCTCCAAGTTCAATATTCCTGACTTA
AAGGTTGGCACGTTGGATGTCTTGGTTGGCTTGTCAGATGAACTGGCTAAACTGGATGCATTTGTAGAAGGAGTG
GTTAAGAAAGTAGCTCAATACATGGCTGATGTATTGGAAGATAGCAAAGACAAAGTTCAAGAGAATCTGTTGGCT
AATGGAGTGGACTTGGTTACTTATATAACAAGGTTCCAGTGGGACATGGCCAAATATCCAATCAAGCAGTCCCTG
AAAAATATTTCTGAAATAATTGCCAAGGGAGTAACTCAGATTGATAATGACCTGAAATCTCGAGCATCTGCATAC
AATAACCTGAAAGGAAATCTTCAGAATTTGGAACGAAAGAATGCAGGAAGTTTGCTAACTAGAAGTCTAGCAGAA
ATTGTGAAGAAGGATGACTTTGTTCCTTGATTGAGAGTATCTCGTCACATTACTGGTAGTAGTTCCCAAGTTAAAC
CACAACGACTGGATTAAGCAGTATGAAACACTAGCCGAAATGGTAGTTCCAAGGTCTAGCAATGTTCTTTTCAGAG
GACCAAGACAGTTACCTGTGTAATGTCACCTTGTTTAGGAAGGCAGTTGATGACTTCAGACACAAAGCCAGAGAA
AACAAATTCATTGTTCTGACTTCCAGTATAATGAAGAGGAGATGAAAGCAGATAAAGAAGAAATGAACAGGCTT
TCTACTGATAAGAAAAACAATTTGGACCACTTGTACGGTGGCTGAAAGTGAATTTTAGTGAAGCATTATTGCA
TGGATTACGTGAAAGCATTACGGGTTTTCGTTGAGTCTGTTTTAAGGTATGGCTTGCCAGTGAACTTCCAAGCA
ATGCTACTTCAGCCCAATAAGAAAACCTTTGAAGAACTGAGAGAAGTATTACATGAATTGTATAAACATCTAGAC
AGCAGTGCAGCAGCTATTATTGATGCTCCTATGGATATTCCAGGTTTAAACCTGAGTCAACAAGAATACTACCCC
TATGTGTACTACAAGATTGATTGCAACTTGCTGGAATTCAGTGAAATGGGCTCCTCCCCGACAATCCTGTCC
TTGTGTTTGTGTGTGCTAACAGAAATAAGTTGCAGTATGGTCGTACTTTTAACTCTAGTATCCTTTGCTTGCTTC
TTACCCCCCTTTCCTAGGTGAATTCTCCACAGTGGTCTGTATCTCAACATTTTCTTTTTTAAAGGAAAAAATATAT
ATATATAGTTTCTTTTTATTGATCAGGTCTGTAAATGTGTACTAAAAAATCAGAGTTTATTTATAAACAAAATA
GTTTATTTTAAAGAGAAGGTCTCTTCCTTATTGATATCATGGTATGCATTAATTCCATTTGTTACTATTGTGCACA
AAAGCCCTGTTTCACAGGGGAATGGTGTAACATTTATACTGTTTTGTTCACTGTATTTAGTAGACATAACTGTTG
AATAGTTACTGAATCATGATGTAAAGAATATGTGACCATCTTCAGGTATGGGATTTCTGAACGTTTCAAATTTCA
ATCAATGAGCACTGTCAACACCCACAGGAGAGAATAAAATTACCTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 618

MTEFWLISAPGEKTCQQTWEKLHAATSKNNNLAVTSKFNIPDLKVGTL DVLVGLSDELAKLDAFVEGVVKKVAQY
MADVLEDSKDKVQENLLANGVDLVITYITRFQWDMAKYPIKQSLKNISEIIAKGVTQIDNDLKSRASAYNNLKGNL
QNLERKNAGSLLTRSLAEIVKKDDFVLDSEYLVTLVVPKLNHNDWIKQYETLAEMVVPRSSNVLSAQDSYLC
NVTLEFRKAVDDFRHKARENKFIVRDFQYNEEEMKADKEEMNRLSTDKKKQFGPLVRWLKVNFSEAFIAWIVKAL
RVFVESVLRVGLPVNFQAMLLQPNKKTLLKKLREVLHELYKHLDSAAAIIDAPMDIPGLNLSQQEYYPYVYYKID
CNLLEFK

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FIGURE 619

GTTCTGTGTTTCGCTTGGGTAGAGGAAGCCGTGAGGCCGGAGCTTAGGTTCGGGAAGGGATGGATCGCTGAGCCGAT
AGCGTCCGCTAGGCTGTCTGCCTCGGTACCTGTTACTGCTGCTACTTCCTCGTTTGACACCTTCCTGGAATCTCT
CTTGATTTTTGAGGAAATACCTAGTAACAAACATGACTGAGTTCTGGCTTATATCTGCTCCTGGGGAGAAAACCT
GTCAGCAAACATGGGAGAAATTGCATGCGGCAACTTCAAAGAACAATAATCTTGCTGTCACCTTCCAAGTTCAATA
TTCCTGACTTAAAGGTTGGCACGTTGGATGTCTTGGTTGGCTTGTGAGATGAAGTGGCTAAACTGGATGCATTTG
TAGAAGGAGTGGTTAAGAAAGTAGCTCAATACATGGCTGATGTATTGGAAGATAGCAAAGACAAAGTTCAAGAGA
ATCTGTTGGCTAATGGAGTGGACTTGGTTACTTATATAACAAGGTTCCAGTGGGACATGGCCAAATATCCAATCA
AGCAGTCCCTGAAAAATATTTCTGAAATAATTGCCAAGGGAGTAAGTCAAGATTGATAATGACCTGAAATCTCGAG
CATCTGCATACAATAACCTGAAAGGAAATCTTCAGAATTTGGAACGAAAGAATGCAGGAAGTTTGCTAACTAGAA
GTCTAGCAGAAATTTGTGAAGAAGGATGACTTTGTTCTTGATTGAGAGTATCTCGTCACATTACTGGTAGTAGTTC
CCAAGTTAAACCACAACGACTGGATTAAGCAGTATGAAACACTAGCCGAAATGGTAGTTCCAAGGTCTAGCAATG
TTCTTTTCAGAGGACCAAGACAGTTACCTGTGTAATGTCACCTTGTTTAGGAAGGCAGTTGATGACTTCAGACACA
AAGCCAGAGAAAAACAAATTCATTGTTTCGTGACTTCCAGTATAATGAAGAGGAGATGAAAGCAGATAAAGAAGAAA
TGAACAGGCTTTTCTACTGATAAGAAAAACAATTTGGACCACCTTGACGGTGGCTGAAAGTGAATTTTAGTGAAG
CATTTATTGCATGGATTACAGTGAAAGCATTACGGGTTTTTCGTTGAGTCTGTTTTAAGGTATGGCTTGCCAGTGA
ACTTCCAAGCAATGCTACTTCAGCCCAATAAGAAAACCTTTGAAGAACTGAGAGAAGTATTACATGAATTGTATA
AACATCTAGACAGCAGTGCAGCAGCTATTATTGATGCTCCTATGGATATTCCAGGTTTTAAACCTGAGTCAACAAG
AATACTACCCCTATGTGTACTACAAGATTGATTGCAACTTGCTGGAATTCAAGTGA¹AAATGGGCTCCTCCCCCGA
CAATCCTGTCCTTGTGTTTGTGTGTGCTAACAGAAATAAGTTGCAGTATGGTCGTACTTTTAACTCTAGTATCCT
TTGCTTGCTTCTTACCCCTTTTCTAGGTGAATTTCTCCACAGTGGTCTGTATCTCAACATTTTCTTTTTAAAGG
AAAAAATATATATATATAGTTTCTTTTTATTGATCAGGTCTGTAAATGTGTACTAAAAAATCAGAGTTTATTTA
TAAACAGAATAGTTTATTTAAAGAGAAGGTCTCTTCTTATTGATATCATGGTATGCATTAATTCCATTTGTTAC
TATTGTGCACAAAAGCCCTGTTACAGGGGAATGGTGTAACATTTATACTGTTTTGTTCACTGTATTTAGTAGA
CATAACTGTTGAATAGTTACTGAATCATGATGTAAAGAATATGTGACCATCTTCAGGTATGGGATTTCTGAACGT
TTCAAATTTCAATCAATGAGCACTGTCAACACCCACAGGAGAGAATAAAATTACCTGTGCAAAGGTGTATTGTGG
TGTGTGTAACCTAAGATTACAGTTCTGTTTGAGAGTTAAATGATGTCATAGCTCACTTGCTATGCTGCTTCCAGG
ATTTTGTATATGCTGAGGTGTAACCATTTGTGTTGTCTGACTTTCGTATGATTTAATTGAGCCAAATTTGGGTC
AGAACACAAATTTGAAGATGACTTTTCAGTATATGATGGGTATTTACATTTGAACACTAGAATTTTAGGTCTCTC
AAATAATTAAGAATAGAGCCAGTTTTGAATAAAGTCTAGCAGAACTATG

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FIGURE 620

MTEFWLISAPGEKTCQQTWEKLHAATSKNNNLAVTSKFNIPDLKVGTLVDVLVGLSDELAKLDAFVEGVVKKVAQY
MADVLEDSKDKVQENLLANGVDLVITYITRFQWDMAKYPIKQSLKNISEIIAKGVTQIDNDLKSRASAYNNLKGNL
QNLERKNAGSLLTRSLAEIVKKDDFVLDSEYLVTLVVVPKLNHNDWIKQYETLAEMVVPRSSNVLSEDQDSYLC
NVTLFRKAVDDFRHKARENKFIVRDFQYNEEEMKADKEEMNRLSTDKKKQFGPLVRWLKVNFEAFIAWIHV KAL
RVFVESVLRVGLPVNFQAMLLQPNKKTLLKKLREVLHELYKHLDSSAAAIIDAPMDIPGLNLSQQEYYPYVYYKID
CNLLEFK

FIGURE 621A

AAGACCTCTAGCCTTTGTGTCTCTCTCTCGCGCCGGAGTGGCTGCAGCTCACCCCTCAGTCTCCCTTTGGGGCCAG
 CTGGGAGCCGAGATAGAAGCTCCTGTCTCGCCGCTGGGCTTCTCGCCTCCCGCAGAGGGCCACACAGAGACCGGGAT
 GGGCACCTCCATGGGCCTGCTGCTGCTGCTGCTGCTGCTCCTGACCCAGCCCCGGGGCGGGGACGGGAGCTGACAC
 GGAGGCGGTGGTCTGCGTGGGGACC GCCTGCTACACGGCCCACTCGGGCAAGCTGAGCGCTGCCGAGGCCAGAA
 CCACTGCAACCAGAACGGGGGCAACCTGGCCACTGTGAAGAGCAAGGAGGAGGCCAGCACGTCCAGCGAGTACT
 GGCCAGCTCCTGAGGCGGGAGGCAGCCCTGACGGCGAGGATGAGCAAGTTCTGGATTGGGCTCCAGCGAGAGAA
 GGGCAAGTGCTGGACCTAGTCTGCCGCTGAAGGGCTTCTAGCTGGGTGGGCGGGGGGAGGACACGCCTTACTC
 TAACTGGCACAAGGAGCTCCGGAACCTGTGCATCTCCAAGCGCTGTGTGTCTCTGCTGCTGGACCTGTCCAGCC
 GCTCCTTCCCAACCGCCTGCCCAAGTGGTCTGAGGGCCCCCTGTGGGAGCCAGGCTCCCCGGAAGTAACATTGA
 GGGCTTCGTGTGCAAGTTTACGCTTCAAAGGCATGTGCCGGCCTCTGGCCCTGGGGGGGCCAGGTGAGGTGACCTA
 CACCACCCCTTCCAGAGACCACAGTTCTCTCTTGAGGCTGTGCCCTTTGCCCTCTGCGGCCAATGTAGCCTGTGG
 GGAAGGTGACAAGGACGAGACTCAGAGTCATTATTTCTGTGCAAGGAGAAGGCCCCCGATGTGTTGACTGGGG
 CAGCTCGGGCCCCCTCTGTGTGACCCCAAGTATGGCTGCAACTTCAACAATGGGGGCTGCCACCAGGACTGCTT
 TGAAGGGGGGATGGCTCCTTCTCTGCGGCTGCCGACCAGGATTCGGCTGCTGGATGACCTGGTGACCTGTGTC
 CTCTCGAAACCTTTGACGCTCCAGCCCATGTCTGTGGGGGGGCCACGTGCGTCTGGGACCCCATGGGAAAACTA
 CACGTGCCGCTGCCCCCAAGGGTACCAGCTGGACTCGAGTCAGCTGGACTGTGTGGACGTGGATGAATGCCAGGA
 CTCCCCCTGTGCCCAGGAGTGTGTCAACACCCCTGGGGGCTTCCGCTGCCAATGCTGGGTGGCTATGAGCCGGG
 CGGTCTTGAGAGGGGGGCTGTGAGGATGTGGATGAGTGTGCTCTGGGTGCTGCGCTTGGCGCCAGGGCTGCAC
 CAACACAGATGGCTCATTTCAGTCTCTGTGAGGAGGGCTACGTCTGGCCGGGGAGGACGGGACTCAGTGCCA
 GGACGTGGATGAGTGTGTGGGCCCCGGGGGGCCCCCTCTGCGACAGCTTGTGCTTCAACACACAAGGGTCTTTCCA
 CTGTGGCTGCCTGCCAGGCTGGGTGCTGGCCCCAAATGGGGTCTCTTGCACCATGGGGCCTGTGTCTCTGGGACC
 ACCATCTGGGCCCCCGATGAGGAGGACAAAGGAGAGAAAAGAGGGAGCACCGTGCCCCGCGCTGCAACAGCCAG
 TCCACAAGGGGCCCCGAGGGCACCCCCAAGGCTACACCCACCACAAGTAGACCTTCGCTGTCTATCTGACGCCCC
 CATCACATCTGCCCCACTCAAGATGCTGGCCCCAGTGGGTCTCAGGCGTCTGGAGGGAGCCCAGCATCCATCA
 CGCCACAGCTGCCTCTGGCCCCCAGGAGCCTGCAGGTGGGGACTCCTCCGTGGCCACACAAAACAACGATGGCAC
 TGACGGGCAAAAGCTGCTTTTTATTCTACATCCTAGGCACCGTGGTGGCCATCCTACTCCTGCTGGCCCTGGCTCT
 GGGGCTACTGGTCTATCGCAAGCGGAGAGCGAAGAGGGAGGAGAAGAAGGAGAAGAAGCCCCAGAATGCGGCAGA
 CAGTTACTCCTGGGTTCAGAGCGAGCTGAGAGCAGGGCCATGGAGAACCAGTACAGTCCGACACCTGGGGACAGA
 CTGCTGAAGTGAAGTGGCCCTAGAGACACTAGAGTCACCAGCCACCATCCTCAGAGCTTTGAACTCCCCATTCC
 AAAGGGGCACCCACATTTTTTTTTGAAAGACTGGACTGGAATCTTAGCAAACAATTGTAAGTCTCCTCCTTAAAGGC
 CCCTTGGAACATGCAGGTATTTTTCTACGGGTGTTTGATGTTCCGAAAGTGAAGCTGTGTGTTGGCGTGCCACGG
 TGGGGATTCGTGACTCTATAATGATTGTTACTCCCCCTCCCTTTTCAAATTCGAATGTGACCAATTCCGGATCA
 GGGTGTGAGGAGGCTGGGGCTAAGGGGCTCCCTGAATATCTTCTCTGCTCACTCCACCATCTAAGAGGAAAAG
 GTGAGTTGCTCATGCTGATTAGGATTGAAATGATTTGTTTCTCTTCTAGGATGAAAATAAATCAATTAATTAT
 TCAATTAGGTAAGAAGATCTGGTTTTTTGGTCAAAGGGAACATGTTGCGACTGGAAACATTTCTTTACATTTGCA
 TTCTCTCATTTCGCCAGCACAAAGTCTTGCTAAATGTGATACTGTTGACATCCTCCAGAATGGCCAGAAGTGCAAT
 TAACCTCTTAGGTGGCAAGGAGGCAGGAAGTGCCTCTTTAGTCTTACATTTCTAATAGCCTTGGGTTTATTGTC
 AAAGGAAGCTTGAAAAATATGAGAAAAGTTGCTTGAAGTGCATTACAGGTGTTTGTGAAGTCACATAATCTACGG
 GGCTAGGGCGAGAGAGGCCAGGGATTTGTTTACAGATACTTGAATTAATTCATCCAAATGTACTGAGGTTACCAC
 ACATTGACTACGGATGTGATCAACACTAACAAGGAAACAAATTCAAGGACAACCTGTCTTTGAGCCAGGGCAGG
 CCTCAGACACCCTGCCTGTGGCCCCGCCTCCACTTCATCCTGCCCGGAATGCCAGTGCTCCGAGCTCAGACAGAG
 GAAGCCCTGCAGAAAGTTCCATCAGGCTGTTTCTAAAGGATGTGTGAACGGGAGATGATGCACTGTGTTTTGAA
 AGTTGTCATTTTTAAAGCATTTTAGCACAGTTCATAGTCCACAGTTGATGCAGCATCCTGAGATTTTAAATCCTGA
 AGTGTGGGTGGCGCACACACCAAGTAGGGAGCTAGTCAGGCAGTTTGCTTAAGGAACTTTTGTCTCTGTCTCTT
 TTCTTAAATTTGGGGTAAGGAGGGAAGGAAGAGGGAAAGAGATGACTAACTAAATCATTTTTTACAGCAAAAA
 CTGCTCAAAGCCATTTAAATTATATCCTCATTTTTTAAAGTTACATTTGCAAAATATTTCTCCCTATGATAATGCAG
 TCGATAGTGTGCACTCTTTCTCTCTCTCTCTCTCTCTCACACACACACACACACACACACACACACACACAGAGA
 CACGGCACCATTTCTGCCTGGGGCACTGGAACACATTCTGGGGGTACCGATGGTTCAGAGTCACTAGAAGTTACC

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FIGURE 621B

TGAGTATCTCTGGGAGGCCTCATGTCTCCTGTGGGCTTTTTACCACCACTGTGCAGGAGAACAGACAGAGGAAAT
GTGTCTCCCTCCAAGGCCCAAAGCCTCAGAGAAAGGGTGTCTTCTGGTTTTGCCTTAGCAATGCATCGGTCTCTG
AGGTGACACTCTGGAGTGGTTGAAGGGCCACAAGGTGCAGGGTTAATACTCTTGCCAGTTTTGAAATATAGATGC
TATGGTTTCAAGATTGTTTTTAATAGAAAACATAAGGGGCGAGGGGAAGTGAAAGGAAAGATGGAGGTTTTGTGCGGC
TCGATGGGGCATTGTGGAACCTCTTTTTAAAGTCATCTCATGGTCTCCAGTTTTCAGTTGGAACCTCTGGTGTTTAA
CACTTAAGGGAGACAAAGGCTGTGTCCATTTGGCAAACTTCCTTGCCACGAGACTCTAGGTGATGTGTGAAGC
TGGGCAGTCTGTGGTGTGGAGAGCAGCCATCTGTCTGGCCATTAGAGGATTCTAAAGACATGGCTGGATGCGCT
GCTGACCAACATCAGCACTTAAATAAATGCAAATGCAACATTTCTCCCTCTGGGCCTTGAAAATCCTTGCCCTTA
TCATTTGGGGTGAAGGAGACATTTCTGTCTTGCTTCCCACAGCCCCAACGCAGTCTGTGTATGATTCTCTGGGA
TCCAACGAGCCCTCTATTTTTACAGTGTCTGTATTGCTCTCACAGCCAGGCCCATCGTCTGTTCTCTGAATGC
AGCCCTGTTCTCAACAACAGGGAGGTTCATGGAACCCCTCTGTGGAACCCACAAGGGGAGAAATGGGTGATAAAGA
ATCCAGTTCTTCAAAACCTTCCCTGGCAGGCTGGGTCCCTCTCCTGTGGGTGGTGTCTTTCTCTGCACACCACT
CCCACCACGGGGGAGAGCCAGCAACCCAAACCAGACAGCTCAGGTTGTGCATCTGATGGAACCCTGAGGCTCAA
ACACGTGCTTTATTTCTCTGTTTATTTTTGCTGTTACTTTGAAGCATGGAATTCTTGTGTTGGGGGATCTTGGGG
CTACAGTAGTGGGTAAACAAATGCCACCGGCCAAGAGGGCCATTAAACAAATCGTCTTGTCTGAGGGGCCCCAG
CTTGCTCGGGCGTGGCACAGTGGGGAATCCAAGGGTCACAGTATGGGGAGAGGTGCACCCTGCCACCTGCTAACT
TCTCGCTAGACACAGTGTCTTCTGCCAGGTGACCTGTTTACGACAGCAGAACAAGCCAGGGCCATGGGGACGGGGGA
AGTTTTCACTTGGAGATGGACACCAAGACAATGAAGATTTGTTGTCCAAATAGGTCAATAATTCTGGGAGACTCT
TGGAaaaaactGAATATATTAGGACCAACTCTCTCCCTCCCTCATCCCACATCTCAAAGCAGACAATGTAAAG
AGAGAACATCTCACACACCCAGCTCGCCATGCCTACTCATTCCTGAATTTAGGTGCCATCACTGCTCTTTCTTT
CTTCTTTGTCAATTTGAGAAAGGATGCAGGAGGACAATTTCCACAGATAATCTGAGGAATGCAGAAAAACCAGGGC
AGGACAGTTATCGACAATGCATTAGAACTTGGTGAGCATCCTCTGTAGAGGGACTCCACCCTGCTCAACAGCTT
GGCTTCCAGGCAAGACCAACCACATCTGGTCTCTGCCTTCGGTGGCCACACACCTAAGCGTCATCGTCATTGCC
ATAGCATCATGATGCAACACATCTACGTGTAGCACTACGACGTTATGTTTGGGTAATGTGGGGATGAACTGCATG
AGGCTCTGATTAAAGGATGTGGGGAAGTGGGCTGCGGTCACTGTGCGCCTTGCAAGGCCACCTGGAGGCCTGTCTG
TTAGCCAGTGGTGGAGGAGCAAGGCTTCAGGAAGGGCCAGCCACATGCCATCTTCCCTGCGATCAGGCAAAAAAG
TGGAATTAaaaAGTCAAACCTTTATATGCATGTGTTATGTCCATTTTGCAGGATGAACTGAGTTTAAAGAATTT
TTTTTTCTCTTCAAGTTGCTTTGTCTTTTCCATCCTCATCACAAGCCCTTGTTTGAGTGTCTTATCCCTGAGCAA
TCTTTCGATGGATGGAGATGATCATTAGGTACTTTTGTTCACCTTTATTCTGTAAATATTTCTGTGAAAACCT
AGGAGAACAGAGATGAGATTTGACAAAAAAAATTGAATTAaaaaTAACACAGTCTTTTAAACTAACATAGGA
AAGCCTTTCTTATTATTTCTCTTCTTAGCTTCTCCATTGTCTAAATCAGGAAAACAGGAAAACACAGCTTTCTAG
CAGCTGCAAAATGGTTTAATGCCCCCTACATATTTCCATCACCTTGAACAATAGCTTTAGCTTGGGAATCTGAGA
TATGATCCCAGAAAACATCTGTCTCTACTTCGGCTGCAAAACCCATGGTTTAAATCTATATGGTTTGTGCATTTT
CTCAACTAAAAATAGAGATGATAATCCGAATTCTCCATATATTCACTAATCAAAGACACTATTTTCATACTAGAT
TCCTGAGACAAAATACTCACTGAAGGGCTTGTTTTAAAAATAAAATGTGTTTTGGTCTGTTCTTGTAGATAATGCCC
TTCTATTTTAGGTAGAAGCTCTGGAATCCCTTTATTGTGCTGTTGCTCTTATCTGCAAGGTGGCAAGCAGTTCTT
TTCAGCAGATTTTGCCCACTATTCTCTGAGCTGAAGTTCTTTGCATAGATTTGGCTTAAGCTTGAATTAGATCC
CTGCAAAGGCTTGCTCTGTGATGTCAGATGTAATTGTAAATGTCAGTAATCACTTCATGAATGCTAAATGAGAAT
GTAAGTATTTTTAAATGTGTGTATTTCAAATTTGTTTGACTAATTCTGGAATTACAAGATTTCTATGCAGGATTT
ACCTTCATCCTGTGCATGTTTCCCAAACCTGTGAGGAGGGAAGGCTCAGAGATCGAGCTTCTCCTCTGAGTTCTAA
CAAAATGGTGCTTTGAGGGTCAGCCTTTAGGAAGGTGCAGCTTTGTTGTCTTTGAGCTTTCTGTTATGTGCCTA
TCCTAATAAACTCTTAAACACATT

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FIGURE 622

MATSMGLLLLLLLLLLTQPGAGTGADTEAVVCVGTACYTAHSGKLSAAEAQNHCNQNGGNLATVKSKEEAQHVQRV
LAQLLRREAALTARMSKFWIGLQREKKGKCLDPSLPLKGF SWVGGGEDTPYSNWHKELRNSCISKRCVSLLLDLSQ
PLLENRLPKWSEGPCGSPGSPGSNIEGFVCKFSFKGMCRLALGGPGQVTYTTTPFQTTSSSLEAVPFASAANVAC
GEGDKDETQSHYFLCKEKAPDVFDWGSSGPLCVSPKYGCNFNNGGCHQDCFEFGDGSFLCGCRPGFRLLDDLVT
ASRNPCSSSPCRGGATCVLGPHGKNYTCRCPQGYQLDSSQLDCVDVDECQDSPCAQECVNTPGGFRCECWVGYEP
GGPGEACQDVDECALGRSPCAQGCTNTDGSFHCSC EEGYVLAGEDGTQCQDVDECVGP GGPLCDSL CFNTQGSF
HCGCLPGWVLAPNGV SCTMGPVSLGPPSGPPDEEDKGEKEGSTVPRAATASPTRGPEGTPKATPTTSRPSLSSDA
PITSAPLKMLAPSGSSGVWREPSIHHATAASGPQEPAGGDSSVATQNNDGTDGQKLLLFYILGTVVAILLLLLALA
LGLLVYRKRRRAKREEKKEKKPQNAADSYSWVPERAESRAMENQYSPTPGTDC

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FIGURE 623A

TGCCTCTGCTGAGGTGATCTGGCGCAGAGCGGAGGAGGTGCTTGGCGCTTCTCAGGCTCCTCCTCTCCCCCTTGCG
GCCTTTCTAACGTTGGCCCTGCTCTTGTGGCCTCCCGCAGAAATGTGGATGACGCCCAAAAGAAGCAAGATGGAAG
TCGACGAGGCTCTAGTTTTCCGGCCCCGAGTGGACCCAGCGTTATTTGGTGGTGGAGCCTCCGGAGGGCGATGGGG
CCCTGTGCCTGGTCTGTGCGCCGCTCATCGTAGCTACCCGCGAACGCGACGTCAGGCGCCACTACGAGGCTGAGC
ACGAATACTACGAGCGGTATGTGGCGGACGGCGAGCGCGCGGCCCTGGTGGAGCGTCTGCGTCAGGGCGACTTGC
CCGTGGCCTCCTTCACTCCTGAAGAGAGAGCTGCTCGTGCAGGCCTCGGGCTCTGCCGCTCTTGGCCTTGAAGG
GTCGCGGCTGGGGTGAGGGGACTTTGTATACCAGTGCATGGAGGTGTTGCTGAGAGAGGTACTGCCCCGAGCATG
TAAGCGTCCTGCAAGGCGTTGACTTATCTCCAGATATCACAAGGCAGAGGATCCTGAGCATTGACAGGAATCTAC
GCAACCAGCTTTTTAACCGAGCCAGGGACTTTAAAGCCTATTCTCTTGCCTTGGACGACCAGGCTTTTGTGGCCT
ATGAGAACTACCTCCTGGTCTTTATCCGCGGTGTAGGCCCTGAGTTGGAGGTGCAAGAAGATCTTCTGACCATAA
TCAACCTGACTCATCATTTTCAGTGTGGTGCCTCATGTCGGCAATCCTAGAGTCCCTGCAGACAGCAGGGCTTA
GCTTGCAGAGAATGGTTGGACTGACCACGACCCATACTTTGAGGATGATTGGTGAGAACTCAGGACTCGTCTCAT
ACATGAGAGAAAAGGCCGTAAGCCCCAACTGTTGGAATGTCATTATTATTAGGATTTCTTCACTTGGAACGTGT
TGAGCTCCTATGATGTAGATGTTAATCAGATCATAAATACCATATCCGAATGGATAGTTTTGATTAAGACCAGAG
GCGTTAGGCGACCTGAATTTTCAGACTTTACTAACGGAATCTGAATCAGAGCATGGTGAAAGGGTTAATGGACGAT
GTCTGAACAATTGGCTTAGGAGAGGGAAAACTTTAAACTAATATTCTCTCTAAGAAAAAGAAATGGAAGCGTTCT
TGGTTTCAGTAGGGGCAACAACAGTCCACTTCTCAGACAAACAATGGCTTTGTGACTTTGGCTTCTTGGTGGACA
TTATGGAACACCTTCGAGAATCAGTGAAGAATTACGAGTTAGTAAAGTCTTTGCTGCTGCTGCCCTTGACCATA
TTTGTACTTTTGAAGTTAAGCTGAATTTATTTCAAAGACATATTGAGGAAAAAAATCTAACAGACTTTCTGCC
TCAGAGAAGTTGTTGATGAGCTAAACAGCAAAATAAGGAAGATGAAAAAATATTTGATCCTGATAGGTATCAA
TGGTGATCTGTCTCTCCAAAAAGAATTTGAGAGACATTTTAAAGGACCTCAGGTTTATTAAAAAGGACTTAGAAC
TTTTTTCAAATCCATTTAACTTTAAACCTGAATATGCACCTATTTTCAGTGAAGGTGGAGCTAACAAAACCTCAGG
CAAACTAATCTTTGGAATGAATACAGAATCAAAGACTTGGGGCAGTTTTATGCTGGATTGTCTGCTGAATCCT
ACCCAATTATCAAAGGGGTTGCCGTGAAGGTGGCATCCTTGTGTTGATAGTAACCAAATCTGTGAAAAGGCTTTTT
CATATTTGACTCGAAACCAACACACTTTGAGTCAGCCATTAACAGATGAGCATCTCCAAGCCCTGTTTCGGGTTG
CCACAACCTGAAATGGAGCCCGGTTGGGATGACCTTGTGAGAGAAAGAAATGAATCTAATCCATTAAGGCTTTGTAG
TACAAGATTGAAAACTCAACAAGAATTTAATCTAAAAGCAAAATTTGGTTTGAAGTTTCAAGTTTACTAATTT
GGATTGTGAGAAAGTACCAAGTACCAGCCGTCCAACTGATCACAATTTAAATTTCTGACAGTTGCCCTTTTTTTTC
ATCTCAAATGGCAGCATGGGACTGAAACATGAGAATGCCACCTTTTTTAAACTTAGTTTAGTGACAAAGTCATT
GTCTTTTATGATATAGTTAATTTTAAAGAGATTTAGTATTAATGTGAGTTGAATTTGCAGTCTGTTTTTTAGGTG
TTCTGAAGATAAATGCCAAAAATTTAGCTCTTATTTTAAATGGAGTGTAAATTTCTGATTATGTAGTCTTAA
TTATCAACTCCTTAAATGTGCTTTTGAACCAATTTGCAGAAAGTCCATAGCAAGTTTATAAGGTTCCAAAAAGG
AAGCCCATAACATAACAGTGGAGGTGTTTTGTCTAACCATCAAATGTTTGAGACTTTTTTTTTAAACATTTCTGAG
TTCGAAGGTAATACTGACAGATTTCTTCCCTCTTCCCTCCCCATCACCCACCTCAGTGATAACACATTACTGATA
GAGGAAGTCATTAGAATCATTTTTAAGTTTTCAGATATAGGAGACTTCATGCAATTTGGAGATAAGACTAATTATT
GGGGGTTTTCTTGGATTTTTTTTTTAAATACTGGGGGCTATTTTTATCAGCTTGCCCTATTAAAGGACTATGGTAA
GTATAGAATCTTAATGGTTGCCAGTTAGTAATTTCTTTTTTTTTTTTTTTTACTGTAGACACAAGTTTGGCCCTATC
AAAAACGATGAGGAAAAAAGATTGCACTCCAGGATTAGGAGGTGTGAGATAATTTAGCTTTTTTGTCTTATCTGC
GTGGGTATTGCTGCTTTATTTTTAAAAAATCCTGCCTAAAGTAAACACTTTGTTTTAAATGATACAGTATCAGAT
TTTGTTAGATGCTAGAAATGGATTTATTCTAAAATTTGGAACCTGTCGTACACATTCTATATGTAAGATAGCACAC
AAGTAGAAATATTTAAAGCAGTCTTATTTCAGAGATTGCAGTAATTCTGTATTTCTACTAAGATAATCTGCTTTG
TGCCAAAAACAGTAATTTCCAACTTCTGTTTACCATGAAAAGGCAATCTTAAAGTTCATTATGTAAACTAATTA
TAAACAGGACCCAATTTATATTATAGATCCTCTCAAGTATTATACAATTTAAAACTCTTGTTCCAAAGTCTTG
TCTTAACCTATTGAAACACCTTAATCTGTGGTTACTAATCCAGCAAATTCAGGAACCAGGCTATGACTAAGAATT
TAGGTGGAATTGATGTCTGGGCAATTAATAAATGGCATAAGAGCTTAAAAACCAAAGTTGTGCCAGTGGCTTT
CAACTAGAGGCAGTAACCTGTCATTCCAGAGGATGCTGAGAAATGTGTAGGGGCACTTTTTTGGTTGTATATTT
ACTAGGGGCTTCTGTTGGCATTAAAGCCTAAAGACACTCACCCCTGCAGTGCATGGGACAGCCTGGCACAATGAA
GAATTAGCCCTCCCAAATGTAGATTATTTTATTTCAAGGGATAGGGCAGATTACCATTAGAAGCAAAATTA

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FIGURE 623B

GTACAAGCTGGGCAAACCTGACAGAATACTAGATAGGAGAGACTAATTCCAACCTTCTAAATTTGGCTAGTAAAGT
GCAATAAAGGCATTGATAAGTTCTGTTAGCTCACCATAGCACTTGTAATCAGGAATTAATAATTGAATCAGATT
TAAGGGCTCTGTCCTGTTATACATATTTAAGGCAGAAAAAAGTTACATGTCGATTAGGTACTTATCAAGAATGG
TCAAGCTGAGATTTTGGTTAATAGAGTAAGCTTACATATCTAGAGAAACAACATAGTGAAAAACCGAAAAAAAAA
AACAGAAAAATCTACCGGTAATTTCCCAGTAGCTTTGAATATTCACAGCAGAGCTTTATTACTTGAGAGAAAGAC
TGGAAGACCTGAAAGCCACTTCTGCTTTCTAACCCCAGTTCCTTAAATATTGAAATCTTGTACATTTTGTGAAAT
TCCAGTATGTTTTGCTTAAGGTGTTAATAAAATTAGTTTGCATCATGTAGTCATTGAGTGAGGGGGAGATATAAG
CCAAGGATTTTAAATTGACCCTTAGCTATAGAGAATTTGCTATAAGCTAGTCTTGTGTTGT

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FIGURE 624

MWMTPKRSKMEVDEALVFRPEWTQRYLVVEPPEGDGALCLVCRR LIVATRERDVRRHYEAEHEY YERYVADGERA
ALVERLRQGDLFVASFTPEERAARAGLGLCRLLALKGRGWGE GDFVYQCMEVLLREVLPEHVSVLQGVDLSPDIT
RQRILSIDRNLRNQLFNRRARDFKAYSLALDDQAFVAYENYLLVFIRGVGPELEVQEDLLTIINLTHHFSVGALMS
AILES LQTAGLSLQRMVGLTTTHTLRMIGENSGLVSYMREKAVSPNCWNVIHYSGLHLLELLSSYDVDVNQIINT
ISEWIVLIKTRGVRRPEFQTLLTESESEHGERVNGRCINNWLRRGKTLKLIFSLRKEMEAF LVSVGATTVHFSDK
QWLCDFGFLVDIMEHLRELSEELRVSKVFAAAAFDHICTFEV KLNLFQRHIEEKNLTDFPALREVVD ELKQQNKE
DEKIFDPDRYQMVICRLQKEFERHFKDLRFIKKDLELFSNPFNF KPEYAPISVRVELTKLQANTNLWNEYRIKDL
GQFYAGLSAESYPIIKGVACKVASLFDSNQICEKAFSYLTRNQHTLSQPLTDEHLQALFRVATTEM EPGWDDLVR
ERNESNP

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FIGURE 625

ATGTCTCTTGTCAGCTGTCTTTTCAGAAGACCTGGTGGGGCAAGTCCGTGGGCATCATGTTGACCGAGCTGGAGAA
AGCCTTGAACCTCTATCATCGACGTCTACCACAAGTACTCCCTGATAAAGGGGAATTTCCATGCCGTCTACAGGGA
TGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGTTCAAAGA
GTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTCCTCATTCTGGTGATAAAGATGGGCGTGGCAGC
CCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGACATG
TACCTGCAGAATAATAAAGTCATCAATACCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 626

MLTELEKALNSIIDVYHKYSLIKGNFHAVYRDDLLKKLLETECPQYIRKKGADVWFKELDINTDGAVNFQEFLLILV
IKMGVAAHKKSHKE

[illegible]

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FIGURE 628

MGLLSQGSPLSWEETKRHADHVRRHGILQFLHIYHAVKDRHKDVLKWGDEVEYMLVSFDHENKKVRLVLSGEKVL
ETLQEKGERTNPNHPTLWRPEYGSYMIEGTPGOPYGGTMSEFNTVEANMRKRRKEATSILEENQALCTITSFPRL
GCPGFTLPEVKPNPVEGGASKSLFFPDEAINKHPRFSTLTRNIRHRRGEKVVINVPIFKDKNTPSPFIETFTEDD
EASRASKPDHIYMDAMGFGMGNCCLOVTFQACSISEARYLYDQLATICPIVMALSAASPFYRGYVSDIDCRWGV
SASVDDRTREERGLEPLKNNNYRISKSRYSIDSYLSKCGEKYNDIDLTIDKEIYEQLLQEGIDHLLAQHVAHLF
IRDPLTLFEEKIHLDDANESDHFENIQSTNWQTMRFKPPPPNSDIGWRVEFRPMEVQLTDFENSAYVVFVLLTR
VILSYKLDFLIPLSKVDENMKVAQKRDAVLQGMFYFRKDIKGGNAVVDGCGKAQNSTELAAEYTLMSIDTIIN
GKEGVFPGLIPLNSYLENMEVDVDTRCSILNYLKLKIKKRASGELMTVARWMREFIANHPDYKQDSVITDEMYS
LILKCNQIANELCECPPELLGSAFRKVKYSGSKTDSSN

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FIGURE 629

CTGTGACACTGCCAGCAGCGCGCAGAGGGAGGGATGGGGGCGGGTATCGGCGTAGGGGCCCCCGGAAAGAACGGA
TATTGCTGTGACACCGCGGGGACGCTCTGAAGGGACGAGTGTCTGGTGTGGCACC GGTCACGCTGAAGGAGCCGG
CGGAACCGGGTGGCC**ATG**GGGATGTGGGCATCGCTGGACGCTTTGTGGGAGATGCCGGCCGAGAAGCGTATCTTC
GGGGCCGTGCTGCTCTTTTCTGGACAGTGTATCTTTGGGAGACCTTCCTAGCACAGCGGCAGAGAAGGATATAT
AAAAACAACAACATCATGTACCACCGGAGTTAGGACAGATCATGGATTCTGAAACATTTGAGAAATCTCGACTCTAT
CAACTGGATAAAAGCACTTTTCTGGTCTGGTCTGAGTCTATTTCAGAGACTGAAGGCACCTCTTATTCTTCTCTTT
GGAGGAATACCTTATCTCTGGAGACTTTCTGGACGGTCTGTGGTTATGCTGGCTTTGGACCAGAATATGAGATC
ACTCAGTCCCCTGGTGTCTTCTGCTGTTGGCTACACTTTTCTGATGCTTACTGGTTTGGCATGGAGTCTTTATAAT
ACTTTTGTGATAGAAGAAAAACATGGCTTCAATCAACAGACTTTGGGGTCTTTCATGAAAGATGCAATCAAGAAA
TTTGTGTGACTCAGTGTATTTTGTGCTGTGCTTCACTTCTACTTTACATTATTAATAAATTTGGGGGTGACTAT
TTTTTTATTTATGCTGGCTGTTTACATTAGTTGTGCTCTGCTTCTTGTGCTGCTATGCTGATTATATTGCC
CCTTTATTTGACAAATTCACACCTCTGCTGAGGGGAAAGCTTAAAGAAGAAATTGAAGTAATGGCAAAGAGTATT
GACTTTCCCTTTGACGAAGGTGTATGTTGTGGAAGGATCTAAACGCTCTTCCCACAGCAATGCTTATTTTTATGGC
TTCTTCAAGAACAAGCGAATAGTTTTGTTTGACACTCTACTAGAAGAGTACTCTGTACTAAACAAAGACATCCAG
GAGGATTCTGGCATGGAACCCCGCAATGAGGAAGAAGGGAACAGTGAAGAAATAAAAGCTAAAGTTAAAAATAAG
AAACAAGGATGTAAAAATGAGGAGGTACTCGCTGTACTAGGCCATGAAGTGGGGCACTGGAAGTTGGGACATACA
GTCAAAAAATATCATTATTAGCCAGATGAATTCTTCTGTGTTTTTTTTTTATTTGCTGTATTAATTGGTCGAAAG
GAGCTTTTTGCTGCATTTGGTTTTTATGATAGCCAACCCACTCTTATTGGACTATTGATCATCTTCCAGTTTATT
TTTTACCTTACAATGAGGTTCTTTCTTTTGCCTAACAGTCTTAAGCCGAGATTTGAGTTTCAAGCTGATGCA
TTTGCCAAGAACTTGGGAAGGCTAAAGACTTATATCTGCTTTAATCAAACCTTAACAAAGATAACTTGGGATTCT
CCTGTTTCTGACTGGTTGTTCTCAATGTGGCATTATTCTCATCTCCACTGCTAGAGAGACTTCAAGCTTTGAAA
ACTATGAAGCAACACT**TGAG**ATGTCCAGGATCTGTGACTGAAGACATTTCTGATTATTTCTGTCTCTGGCAGCATGT
TCCAGCTCTTGATGTTTTTAACTTTTTTTTGAAGAAAAATTAAGTACAGAAAAGCCAGATTTAAATACATTT
AATATGTCATTTTAAAAATGATTTTAATAATTCACTTCTTAAACACTGAATGAATTTTGAAGCTTAATGTTTTT
AAAGGCATAGTTTTATCTTTGACATCTAATTTACCATCAAGTTGTAAATTTATTTGGAAAAATACAGAACTCGTT
TTATTTGTATACCTTATATGGAATCTGCATGTGAGGTGTTTGGGGCATATGTTTGAAAGAGGGAGCATCACCACA
GGAATCCTTTCTGTGAGGTGGAACAGTGGTCTGAATCATTGTGCTCACACCTAAGTGAATCTGGTCTTACT
TTCATGCTGTTATGATTTACCTGGTGAATCAGTGTTTTAAATAAGAAAGGTAATAGTTGGTAAGGCCAATGTTA
TTTAAATGAAAGTAGTTAGAAAAATGCTCTCCTATTCTACCAAATTTTTAATTTCTTTCTTCCCTTTCTTGCTAC
ACAGTGATCAAGAGTTTCTCATAGTGCTTTGAAGTTAGAAATTTATGTATAGGATATTTTAAATCATTGAGTTTTG
TGGGGTTTTTTTGTGTTGTTGTTTCTTTTGTGTTTTTGGAAAAATCCGTGTCTTTATCTTTTTTTTCCCACGTGGTAG
ATATGATCCCATTGGAGGTAAATTGTAGCTTCTTCTCATTTCATGCAGTAAATAATACATCCTTTCACTCAGCAGA
GATGGCCATATTAACACGTTTTGCTATGTTAAAGTGGCAGAACAGGAAAGACGAATTAATAAATAACATTTTTT
AAGCGACATAAGGATGAAATACTGATGAATCTCTGTGACATTACAGGGAAAAAATATAGTTTTCTATCTCTTTC
AAGGGCAGAAAGATTTTCAATTTTATTTTGTAAATTTTATCTGTAAGTCATAAATATTACTTAATCAGGCCTGAT
TCTACTTTTGAATAATACAGTTCTTGAATGCAGATAATGTTTACTTTGAAAACAAATGTCATGAATGATTTCCA
GTTTTTAAAGCTATATGTTTCACTGCTTCATATCTCTGTCCACTTTCTGAATGAGAACTTATTTTGTGCTAGAG
CTCTCACTCACTGATAATGCTTATTACCTTCTGGGCATTTATTCCAAAGTGGGATCAACTGTACGCCTTTGGTAT
CTGACCATAAAGTCTTTTGCTCCGCTGACATTTGGGTGATGTCTTCACATGGAAATATAATAAAAAATAAAAAATCT
AGTTTAATACTGCATTATTTATTTTCTAAGGCTAAAGAGGAGCAGTCTATGCTTTTATTTCAGCATCCTTTATC
TGTGACTTCATGCTCTGATAACTGCCTTTCTTCTCTGTGCTTTGAATACAAATTTTCACTTCTGCAAAAGTG
AAACATTAAACATTGCCAACGCAATGT

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FIGURE 630

MGMWASLDALWEMPAEKRIFGAVLLFSWTVYLVWETFLAQRQRRIYKTTTHVPPELGQIMDSETFEKSRLYQLDKS
TFSFWSGLYSETEGTLILLFGGIPYLWRLSGRFCGYAGFGPEYEITQSLVFLLLATLFSALTGLPWSLYNTFVIE
EKHGFNQQTIGFFMKDAIKKFVVTQCILLPVSSLLLYIIKIGGDYFFIYAWLFTLVVSLVLVTIYADYIAPLFDK
FTPLPEGKLKEEIEVMAKSIDFPLTKVYVVEGSKRSSHSNAYFYGFFKNKRIVLFDTLLEEYSVLNKDIQEDSGM
EPRNEEEGNSEEIKAKVKNNKQGCKNEEVLAVLGHELGHWKLGHTVKNIIISQMNSFLCFFLFAVLIGRKELFAA
FGFYDSQPTLIGLLIIFQFIFSPYNEVLSFCLTVLSRRFEFQADAFKKLGKAKDLYSALIKLNKDNLGFPVSDW
LFSMWHYSHPPLLERLQALKTMKQH

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FIGURE 631

CACCCTGTAAGTGGCTGCGGCGGGAAGATGGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTAC
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTC
TGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTTCATCGCCGTCAGCTGT
GGGCCTGCACAGTGCCAGGAGACGATTTCGTACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG
CCCCAGCAGAAGCAGAACGCTTGGGTCCCCTGCAGGTGGCTCGGGTCCTGGCCAAGCTGGCAGAGAAGGAGAAG
GTGGACCTGGTGCTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATTT
CTTGACTGGCCACAGGGCACATTTCGCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGCGGGAGATC
GATGGGGGCCCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC
TACGCCACGCTGCCCAACATCATGAAAGCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTG
GACCTGACCTCCAAGCTCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGGCCGGCGTCAAGGTGGAGACC
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTTGAGCCCCCTCCAGAGATGGCAATAAAACTGAC
TCTCAACATCAAAAAAAAAAAAAAAAAA

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FIGURE 632

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI
RTALAMGADRGIHVEVPPAEAERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDDCNQTGQMTAGFLDWFQGTFA
SQVTLEGDKLKVEREIDGGLETLRLKLPAVVTADLRLNEPRYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

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FIGURE 633

GATAGGATCACCACGGTGGTAACCTCTCACATTGTCTTCTCCACAGGAGGCGTCTGACACAGTATGATGATGAAG
ATCCCATGGGGCAGCATCCCAGTACTGATCTTGCTCCTGCTCCTGGGCCTAATCGATATCTCCAGGCCCAGCTC
AGCTGCACCGGGCCCCCAGCCATCCCTGGCATCCCGGGTATCCCTGGGACACCTGGCCCCGATGGCCAACCTGGG
ACCCCAGGGATAAAAGGAGAGAAAAGGGCTTCCAGGGCTGGCTGGAGACCATGGTGAGTTCGGAGAGAAGGGAGAC
CCAGGGATTCTGGGAATCCAGGAAAAGTCGGCCCCAAGGGCCCCATGGGCCCTAAAGGTGGCCCAGGGGCCCT
GGAGCCCCAGGCCCCAAAGGTGAATCGGGAGACTACAAGGCCACCCAGAAAATCGCCTTCTCTGCCACAAGAACC
ATCAACGTCCCCCTGCGCCGGGACCAGACCATCCGCTTCGACCACGTGATCACCAACATGAACAACAATTATGAG
CCCCGCAGTGGCAAGTTCACCTGCAAGGTGCCCCGGTCTCTACTACTTCACCTACCACGCCAGCTCTCGAGGGAAC
CTGTGCGTGAACCTCATGCGTGGCCGGGAGCGTGACAGAAGGTGGTCACCTTCTGTGACTATGCCTACAACACC
TTCCAGGTCACCACCGGTGGCATGGTCCTCAAGCTGGAGCAGGGGGAGAACGTCTTCCTGCAGGCCACCGACAAG
AACTCACTACTGGGCATGGAGGGTGCCAACAGCATCTTTTCCGGGTTCTGCTCTTTCCAGATATGGAGGCCTGA

CCTGTGGGCTGCTTACATCCACCCCGGCTCCCCCTGCCAGCAACGCTCACTCTACCCCCAACACCACCCCTTGC
CCAGCCAATGGACACAGTAGGGCTTGGTGAATGCTGCTGAGTGAATGAGTAAATAAACTCTTCAAGGCCAAGGAA
CAGTGGTCTAATTCAACTCTGTGTCCCAGCACTGGCACACCAGAAGTGCCATGCTCAGAAATGTTGGTTACATGA
ATGAATGAACCATGAATGAATG

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FIGURE 634

MMMKIPWGSIPVLILLLLLGLIDISQAQLSCTGPPAIPGIPGIPGTPGPDGQPGTPGIKGEKGLPGLAGDHGEFG
EKGDPGIPGNPGKVGPKGPMGPKGGPGAPGAPGPKGESGDYKATQKIAFSATRTINVPLRRDQTIRFDHVITNMN
NNYEPRSGKFTCKVPGLYYFTYHASSRGNLCVNLMRGRERAQKVVTFCDYAYNTFQVTTGGMVLKLEQGENVFLO
ATDKNSLLGMEGANSIFSGFLLFPDMEA

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FIGURE 635A

GGACTGTGTGTGTCTGGCTGTAGCAGACGCGAGGCGGCGACGAGGCGCGGGGACCCGCGCGAGGGGCGGCCGGG
AGGCGGCGGCGGCGGCCGCCAGAAGTAGCAGCAGGACCGGCGGCGGCGACGGCAGCCCTGAAATGCATTTTCCTC
TCCAGCGGCCATGTTAACAGGAAACCTTCGGCCGCGCTCCCGCCGCTACCCGACCGGCGGAGGTGGGGACAG
CGCCGTTCGTCAGCTTCAGGCTTCCCCGGGGCTCGGTGCAGGGCCCCACCCGGAGCGGAGTGGGGACTGGCCCCGCC
CTCCCCCATCGCCCTGCCGCTCTCCGGGCCAGCAACGCTGCCGCGCAGCCACACGATTGGCGGCAGTAAGCA
CACAATGAATGATCACCTGCATGTGCGCAGCCACGCTCACGGACAGATCCAGGTTCAACAGTTGTTTGAGGATAA
CAGTAACAAGCGGACAGTGCTCACGACACAACCAAATGGGCTTACAACAGTGGGCAAAACGGGCTTGCCAGTGGT
GCCAGAGCGGCAGCTGGACAGCATTATAGACGGCAGGGGAGCTCCACCTCTCTAAAGTCCATGGAAGGCATGGG
GAAGGTGAAAGCCACCCCATGACACCTGAACAAGCAATGAAGCAATACATGCAAAAACCTCACAGCCTTCGAACA
CCATGAGATTTTCAGCTACCCTGAAATATATTTCTTGGGTCTAAATGCTAAGAAGCGCCAGGGCATGACAGGTGG
GCCCCAACAAATGGTGGCTATGATGATGACCAGGGATCATATGTGCAGGTGCCCCACGATCACGTGGCTTACAGGTA
TGAGGTCCCTCAAGGTCATTGGGAAGGGGAGCTTTGGGCAGGTGGTCAAGGCCTACGATCACAAAGTCCACCAGCA
CGTGGCCCTAAAGATGGTGCGAATGAGAAGCGCTTCCACCGGCAAGCAGCGGAGGAGATCCGAATCCTGGAACA
CCTGCGGAAGCAGGACAAGGATAACACAATGAATGTCATCCATATGCTGGAGAATTTACCTTCCGCAACCACAT
CTGCATGACGTTTGAGCTGCTGAGCATGAACCTCTATGAGTCTATCAAGAAGAATAAATTCCAGGGCTTCAGTCT
GCCTTTGGTTCGCAAGTTTGCCACTCGATTCTGCAGTGCTTGGATGCTTTGCACAAAACAGAATAATTCAGT
TGACCTTAAGCCCAGAACATTTTGTAAAGCAGCAGGGTAGAAGCGGTATTAAAGTAATTGATTTTGGCTCCAG
TTGTTACGAGCATCAGCGTGTCTACACGTACATCCAGTCGCTTTTACCAGGCTCCAGAAGTGATCCTTGGGGC
CAGGTATGGCATGCCATTGATATGTGGAGCCTGGGCTGCATTTTAGCAGAGCTCCTGACGGGTTACCCCTCTT
GCCTGGGGAAGATGAAGGGGACCAGCTGGCCTGTATGATTGAACTGTTGGGCATGCCCTCACAGAACTGCTGGA
TGCATCCAAACGAGCCAAAATTTTGTGAGCTCCAAGGGTTATCCCCGTTACTGCACTGTACGACTCTCTCAGA
TGGCTCTGTGGTCTTAAACGGAGGCCGTTCCCGGAGGGGGAACTGAGGGGCCACCCGAGAGCAGAGAGTGGGG
GAACGCGCTGAAGGGGTGTGATGATCCCTTTTCTTGACTTCTTAAACAGTGTTTAGAGTGGGATCCTGCAGT
GCGCATGACCCAGGCCAGGCTTTGCGGCACCCCTGGCTGAGGAGGCGGTTGCCAAAGCCTCCCACCGGGGAGAA
AACGTCAGTGAAAAGGATAACTGAGAGCACCGGTGCTATCACATCTATATCCAAGTTACCTCCACCTTCTAGCTC
AGCTTCCAACTGAGGACTAATTTGGCGCAGATGACAGATGCCAATGGGAATATTACGAGAGGACAGTGTGGC
AAAACCTGTAGCTAGCTCACGTCCCCTGATGCTGGTAACCTGAAAGATACGACATTGCTGAGCCTTACTGGGT
TGAAAAGGAGTAGCTCAGACCTGTTTTTATTTGCTCAATAACTCTACTCATTTGTATCTTTTCAGCACTTAATTT
TAATGTAAGAAAGTTGTTTATTTTATATAAATACATGAGGACAATGCTTTAAGTTTTTATACTTTTCAGAA
ACTTTTTGTGTTCTAAAAGTACAATGAGCCTTACTGTATTTAGTGTGGCAGAATAATAACATCAGTGGCAGGCCA
CTGATTACTTCATGACTGCCACGCATTTACAGATTGGTGTCAAAGACATTCACTATGTTTTTATGGTTCATGTTA
TATCCTCCCCAGGGTGACAGCCCCTTAAGGCCCTCCTTTTCCCTCCATGCTCCAGGTCCATGCACAGGTGTAGCA
TGTCCTGCTTCCGTTTTTTCATAAATTAATCTGGGTGTTGGGGGTAGTGGGAGGAGAACGGTCAGAATCAAAGTGA
CATTCTAAGAAAACTGTACCTTAGAGATTTTCTCTAGTGCTCAAACAAATACAAAATAAGATCCCCAAGGTTT
AAACTGCCCAGTTAGCATTCTGACATTCTAAAAGCCGGCAAAGCAGCTTTTAGTGGATAAATGGGAATGGAAACG
TGTGTGTTCTCCAAATTTCTAGTATGATCGGTGAGCTGTTTTGTAAAGAAGCCTCATATTACAGAGTTGCTTT
TGCACCTAAATTTAGAATTGTATTCCATGAAGTGTTCCTCCCTTTTCTCTGCTTTTCTCTCTGTTCTCTTT
TAATACCACACGTCGTGTGCTTGCATTTAGTTTGTCTTCTTCTCAGCTGTGTATCCAGACTGTTAATACAGA
AAAGAGACATTTACAGTGTGATTATGACCATTGTTTCATATTCCAATTAAAAAAGAACAGCAGCCTAGCTACTT
AAGGTGGGGATTTTCATAGTTCCAAAGAAGATTTAGCAGATTAGAGTGAGTTCACACTTTTCAGGTGCCACTGTAA
GGTTCCTCTCAGCCTGGGAACTATCAACTCTTCTTTAAAAAGAAAGAGGGTTGAAAATCCTCTGGACGAACAGA
AGTCACTTTGGCTGTTTCAGTAAGGCCAATGTTAACAACACGTTTAGAGGAGGAAAAGTTCAACCTCAAGTTAAAT
GGTTTGACTTATTCTTCGTATCATTAGAAGAACCCAGAGATAGCATTCCTCTATTTTATTTTACTTTCTTTTGG
ATTGCACTGATTGTTTTTGTGGGAATGACACTTTATCTGGCAAAGTAACTGAGAGTTTGGTAAAAGAATATTTTC
TTCTCTGAATAATAATTATTTTACAGTGAAAATTTTCACTAATGTATGAGCAATGATCTATATC
AATTTCAAGGCACGTGAAAAAATTTTTTAGTATGTGCAATTTAATATAGAAAGATTTCTGCCTGTTTGGACAAT
AGGTTTTGGGTAGTACAGATTAGGATAAGTAAGCTTATATATGCACAGAGATTATTGTATTACCTGTAAATTGAT
TTACAAGTACTTAAAAGCGTGGTCCCCAGTGAGGCCAAGAAAGTTCCGGTTAAGTTCTTTAATAATAATCCTAC

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FIGURE 635B

AGTTTATCTTAAGAA

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FIGURE 636

MLTRKPSAAAPAAYP TGRGGDSAVRQLQASPLGAGPTRSGVGTGPPSPIALPPLRASNAAAAAHTIGGSKHTMN
DHLHVGS SHAHQIQVQQLFEDNSNKRTVLTTQPNGLTTVGKTGLPVVPERQLDSIHRRQGSSTSLKSMEGMGKVK
ATPMTPEQAMKQYMOKLTAFEHHEIFSYPEIYFLGLNAKKRQGMTGGPNNGGYDDDQGSYVQVPHDHVAYRYEVL
KVIKGSGFGQVVKAYDHKVHQAVALKMRNEKRFHRQAAEEIRILEHLRKQDKDNTMNVIHMLENFTFRNHICMT
FELLSMNLIELIKKNKFQGFSLPLVRKFAHSILQCLDALHKNRIIHCDLKPENILLKQQGRSGIKVIDFGSSCYE
HQRVYTYIQSRFYRAPEVILGARYGMPIDMWSLGCILAE LLTGYP LLPGEDEGDQLACMIELLGMP SQKLLDASK
RAKNFVSSKGYPRYCTVTTLSDGSVVLNGGRSRRGKLRGPPESREWGNALKGCDPLFLDFLKQCLEWDP AVRMT
PGQALRHPWLRRLPKPPTGEKTSVKRITESTGAITSISKLP PPSSSASKLRTNLAQMTDANGNIQQRTVLPKLV
S

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FIGURE 637A

CTCGCAGCGCTTCCAGCTCCCCGCGCCCCTATGTGAGGGAGACGGGGAGGCCCGCGGCGCGCAGGGGAGGGCGAG
GCATGTGCACGGGCCCGAGGGTGCTGCAGCCGCCCCGAGGAAGAGGAGGACGGCGGCGAGGAGGAGAGCGGGGGGC
TCGCGGCGGCGGGCCCCGGCCGAGGGGATGCAGTGGACTGTGTGTGTCTGGCTGTAGCAGACGCGAGGCGGCGAC
GAGGCGCCGGGGACCCGCGCGAGGGGCGGCCGNNNNNNNNNNNNNNNNNNNNNCAGAAGTAGCAGCAGGACCGGC
GGCGGCGACGGCAGCCCTGAAATGCATTTTCTCTCCAGCGGCC**ATGT**TAACCAGGAAACCTTCGGCCGCGCTC
CCGCCGCTACCCGACCGGCCGAGGTGGGGACAGCGCCGTTCTGTCAGCTTCAGGCTTCCCCGGGGCTCGGTGCAG
GGGCCACCCGGAGCGGAGTGGGACTGGCCCGCCCTCCCCATCGCCCTGCCGCTCTCCGGGCCAGCAACGCTG
CCGCCGAGCCACACGATTGGCGGCAGTAAGCACACAATGAATGATCACCTGCATGTGCGCAGCCACGCTCACG
GACAGATCCAGGTTCAACAGTTGTTTGAGGATAACAGTAACAAGCGGACAGTGCTCACGACACAACCAATGGGC
TTACAACAGTGGGCAAACGGGCTTGCCAGTGGTGCCAGAGCGGCAGCTGGACAGCATTATAGACGGCAGGGGA
GCTCCACCTCTCTAAAGTCCATGGAAGGCATGGGGAAGGTGAAAGCCACCCCATGACACCTGAACAAGCAATGA
AGCAATACATGCAAAACTCACAGCCTTCGAACACCATGAGATTTTCAGCTACCCTGAAATATATTTCTTGGGTC
TAAATGCTAAGAAGCGCCAGGGCATGACAGGTGGGCCCAACAATGGTGGCTATGATGATGACCAGGGATCATATG
TGCAGGTGCCCCACGATCACGTGGCTTACAGGTATGAGGTCTCAAGGTCAATTGGGAAGGGGAGCTTTGGGCAGG
TGGTCAAGGCCTACGATCACAAAGTCCACCAGCACGTGGCCCTAAAGATGGTGCGAATGAGAAGCGCTTCCACC
GGCAAGCAGCGGAGGAGATCCGAATCCTGGAACACCTGCGGAAGCAGGACAAGGATAACACAATGAATGTCATCC
ATATGCTGGAGAATTTACCTTCCGCAACCACATCTGCATGACGTTTGAGCTGCTGAGCATGAACCTCTATGAGC
TCATCAAGAAGAATAAATTCCAGGGCTTCAGTCTGCCTTTGGTTCGCAAGTTTGCCCACTCGATTCTGCAGTGCT
TGGATGCTTTGCACAAAAACAGAATAATTCAGTGTGACCTTAAGCCGAGAACATTTTGTTAAAGCAGCAGGGTA
GAAGCGGTATTAAAGTAATTGATTTTGGCTCCAGTTGTTACGAGCATCAGCGTGTCTACACGTACATCCAGTCGC
GTTTTTACCGGGCTCCAGAAGTGATCCTTGGGGCCAGGTATGGCATGCCATTGATATGTGGAGCCTGGGCTGCA
TTTTAGCAGAGCTCCTGACGGGTACCCCTCTTGCTGGGGAAGATGAAGGGGACCAGCTGGCCTGTATGATTG
AACTGTTGGGCATGCCCTCACAGAACTGCTGGATGCATCCAAACGAGCCAAAAATTTGTGAGCTCCAAGGGTT
ATCCCGTTACTGCACTGTCTCAGACTCTCTCAGATGGCTCTGTGGTCTTAAACGGAGGCCGTTCCCGGAGGGGA
AACTGAGGGGGCCACCGGAGAGCAGAGAGTGGGGTAACGCGCTGAAGGGGTGTGATGATCCCTTTTCTTGACT
TCTTAAACAGTGTTTAGAGTGGGATCCTGCAGTGCAGTACCCCAAGGCCAGGCTTTGCGGCACCCCTGGCTGA
GGAGGCGGTTGCCAAAGCCTCCACCGGGGAGAAAACGTCAGTGAAAAGGATAACTGAGAGCACCGGTGCTATCA
CATCTATATCCAAGTTACCTCCACCTTCTAGCTCAGCTTCCAACTGAGGACTAATTTGGCGCAGATGACAGATG
CCAATGGGAATATTACAGCAGAGGACAGTGTGCCAAACTTGTTAGCT**AG**AGCTCACGTCCCCTGATGCTGGTAAC
CTGAAAGATACGACATTGCTGAGCCTTACTGGGTGAAAAGGAGTAGCTCAGACCTGTTTTTATTTGCTCAATAA
CTCTACTCATTTGTATCTTTTCAGCACTTAATTTTAATGTAAGAAAGTTGTTCAATTTTGTGTTTTATAAAATACAT
GAGGACAATGCTTTAAGTTTTTATACTTTTCAGAACTTTTTGTGTTCTAAAAGTACAATGAGCCTTACTGTATTT
AGTGTGGCAGAATAATAACATCAGTGGCAGGCCACTGATTACTTCATGACTGCCACGCATTTACAGATTGGTGTG
AAAGACATTCATATGTTTTTATGGTTCATGTTATATCCTCCCCAGGGTGACAGCCCTTAAGGCCCTCCTTTTC
CCTCCATGCTCCAGGTCCATGCACAGGTGTAGCATGTCTGCTTCCGTTTTTCATAAATTAATCTGGGTGTTGGG
GGTAGTGGGAGGAGAACGGTCAGAATCAAAGTGACATTCTAAGAAAACTGTACCTTAGAGATTTTCTCTAGTG
CTCAAAACAAATACAAAATAAGATCCCCAAGGTTAAACTGCCAGTTAGCATTCTGACATTCTAAAAGCCGGCAA
AGCAGCTTTTAGTGGATAAATGGGAATGGAAACGTGTGTGTTCTCCAAATTTTCTAGTATGATCGGTGAGCTGT
TTTGTAAGAAGCCTCATATTACAGAGTTGCTTTTGCACCTAAATTTAGAATTGTATTCCATGAAGTGTCTCC
CTTTTCTCTGCTTTTCTCCTCTCTGTTCTCTTTTAATACCACACGTCTGTTGCTTGCAATTTAGTTTGCTTCTT
CCTTCAGCTGTGTATCCAGACTGTTAATACAGAAAAGAGACATTTACAGCTGTGATTATGACCATTGTTTCATAT
TCCAATTAAGAAAAGAACAGCAGCCTAGCTACTTAAGGTGGGGATTTCCATAGTTCCAAGAAGATTTAGCAGAT
TAGAGTGAGTTCACACTTTTCAGGTGCCACTGTAAGGTTCTCTCAGCCTGGGAACTATCAACTCTTCTTAA
AAGAAAGAGGGTTGAAAATCCTCTGGACGAACAGAAAGTCACTTTGGCTGTTAGTAAGGCAATGTTAACAACAC
GTTTAGAGGAGGAAAAGTTCAACCTCAAGTTAAATGGTTGACTTATTCTTCGTATCATTAGAAGAACCCAGAG
ATAGCATTCCTCTATTTTATTTTACTTTCTTTTGGATTGCACTGATTGTTTTTGTGGGAATGACACTTTATCTGG
CAAAGTAACTGAGAGTTTGGTAAAAGAATATTTCTCTCTGAATAATAATTATTTTACAGTGAAAAATTCAGT
ATTTTATCACTAATGTATGAGCAATGATCTATATCAATTTCAAGGCACGTGAAAAAATTTTTTAGTATGTGCAA

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FIGURE 637B

TTTAATATAGAAAGATTTCTGCCTGTTTGGACAATAGGTTTTGGGTAGTACAGATTAGGATAAGTAAGCTTATAT
ATGCACAGAGATTATTGTATTACCTGTAAATTGATTTACAAGTACTTAAAAGCGTGGTCCCCAGTGAGGCCAAGA
AAGTTTCCGGTTAAGTTCTTTAATAATAATCCTACAGTTTATCTTAAGAAAAAAAAAAGGTTTGAAAAAACAC
TTAATTTAGGCTTCGTTGGTTGATGGTGAAAAAATGCTCAGGAAATATTTTACAGATATTTGCCAAAAACCAG
TAATAAGGTTACCTTATTAAAATAGTGATATTTGCTTTACTATTTAAGGTGTCAGTGATAAATTAATTTGTACTT
CTGTGTTTAGAAATTATAGCTTCTTTTCCCTTAGTCAAATTTTTTAGCATATTATACACATTTCTGTGTAATCTG
TGGAAGTGCAATAATATGTTAGTAAGTTACATTTTAAATAATGCTCATGTGACAATACTCCCAATCAATGGCTTA
TAGAATTTAAAGATCTGTATATTAGATTTTGGCTTAAAGGCATGAGAAGTATAAGACTTGGTTTGGTGGCTTTGT
AAGACCACCAGCCTCTTAATGATGGTTAGCTTCTTTAGGTCATTAAATCAATAAAAAACATATAATGCTGTTTTGC
TCTTCTAATGCTCCTCTTCCATTTCCAGTTATCTTCACATTTACATTTAAATATACAAACCTGAGCCCGCCATTA
TTAATTTCCCTATAAAATGACGATACATGTGAACATTTATAAATGGACTAATACTGCTTGTCTTTCCCCCACC GC
ACAAAACCTGGTTCTTAAGATGCCAGCAATGAATTTGAGACTATCTTTATTTATAAATGGAAACCGGAAACTTTTA
TACCAAACCTATAAATGTGCAGCACTGTAGGGCTTTTTTTTTTTTTTCCCTCCAAATACAGTGAAATTTTTTTTATT
CACAAGAGCTGCCACATCTCAGCATTTAGTAATAGAGCTGCTTTAATAAAATTCTAGTTTGATTGTCATGTCAA
AAAAGAAAAATGTTGCATCTTTGTGATTTTAAAAACATAAATTAATGAAGGCTCTGATAGGCTATTAGGAGTTGGC
TTGGAAACAGTTTTTGGTCTCACAGGTTACCATTGTTTGGGGATGTCTGAGCTGTTTTTCAGATCTAGGAATAGCA
CAGTGTGTCTTGTCTTTGGCAGTCTCATTTGGCTCTGTTTCTTGCAACCACCAGCATGTTTATTACCCTTAAAT
ATATTGCTACAGCAGTGGAACAACAGAGTGGTGCAAGACACTGTAGATTAACGGTAGAGGAGAAATTGTGCCCTT
AGTGTTAACAATGTGCCTTTTTGTTCTGAATGCCATGTTGTAGGGCATGCATTTTTTGGCCTCTTTAACTCTTCGA
ATTCTAGTCAGTAAGAATGGAACCCATCTCTGCAAAGATACATCTGTCTTAAATATCTAGTTACAGGCCTTAATA
GAAACCATAAGGCATGACTCATCTTCAGGCCTGAAAAAAGATAACCATCAGGTAGTGTTACACAAGGACTTCCT
ATATTTAAGGGGTTAAAGATGGTCTTTGTTGTATCTTAACATCAGACTGATTTTTACATTTTTTTTTTGTATGC
TAACACTAGACAAAAATCAACTGTATTTGTAAAAATTTACCTCAAACCATTTAATTTTATAGTGTGATTAATCCC
AGGGCATTGTTGATGAACCAAAGTGCATTCCTTTTATATGTGCCTGGCTCTAGTAAGGATGGCCAGGGATTTTTTA
CAATTTGGGTGCAAGGCCTTAAGCCACTTTTAACTTAATGGGTGGTTTGGGGTTCGTGTTAAATGACCCCATCA
GAATGTTAGAAAACACTTTAGGCATCAGTAGCATTGGGCCATATTGGAATCCTAAAGTGTGAATTATTTTAAGGA
GAGCATTCATTTTTGTAATTTTTTTCATCAAAAAATATTTCTGGTAAGCAGAAGACTTTTTAAAAAACTGATCTG
GTCTCGGTAAAGGTTTTAATATTGCCAACATAATGCTGTAATAGCATTAAAAAAGTATTTGTGAACCTCTGTTT
CTTAGGGGCTTGATACATCTCTCTGCTATGGACATACATAAAATTAATTGTAATTATACTCAGCTCAACTGCTACA
GTTCTGTCTAGGCAGTGGCTTGGGTTTTTATCGAGCAACAACCTTAGACACGTGACTGTAATATGCTGCAACTGTG
TGTACTGAAAATATGTGAAAATGGTTGAATGTGGACTGTGTATATATGTATGTAAAAATTTCTGTGAGATGCTGC
TGTCGCCACTTAACATTAAATATGTTCTAGTGGATTTAATCCTAGTGGCCAGTTCTATGATACTGTATGTATTA
TACAGCTGATGACAGGAGTAAGACTGTTTAGTGAATATCTGTAAATTTTATTGTTGTGGCCAGAGATAATTTCA
GAATAAAATTTTAATGTCCTACCTTACTTCTCTCCCTTTCTAACTATAATTTAACTCCTGATCTATTTCTGGTA
TTATCCTTTGTCAATTAGCCTGGAGAGGGTTAGAATGCAAATGGATAGCTCTATATCAGGGTCTTGAGAAGTT
AAAAATAATTCATTCTACTAGTTTGTTCATAGCAATACTTTATTAGTTCAATATAAGTATGCAGATTCCAAGTGGA
AAAACAAAGGTTTTAGTAAGTAGTTCTTGCTTTTCCCAGGATATTCTATTCCTTCACCTGTCAGATTTTTTATGTT
AACTTTTTTATATATAGCCTCTGCTGTGTTCTTTATTATGCTAGAGCTTCATATCTTCTTTTATTTTTAACCTTCA
CAATGATAGTTAAGCTGGGGGAGCAGAACCTGTCAATTATTCCCCACCAGTCTTCATTCTTTTCTCTGCACAAGT
TCTGGTAAATTAATCTAATGTGCTCTAACCAGTTCCACCCAATGTTTTTAAATGCTTATGAGTTTGAGTTTTG
TACTTGGTGGTCTCTGTGGTTTACATTTTTTTGTGTTGTAGTGTCTCCTGCCTCGGTTGGCTCAGAAAAATAAGGC
CTAGGAAC TGCAATTAGCTCATGATTTGTCAAGTTCAGTTAGTACCAAGCTAAGAGTTTACTTACAGATGACAGC
AAGCAGATGCTCTAGTAATTCGTCAGACATTGCAGGGATATTGTGTAGTCAGATATTACCCTCTTGTGGAAAGAA
CTACCTCACATCATTATTTATTTCCCTTCTGTTACCAACAGCCAAGGAATTACTTAGTGTGGCTCCCTGCATCAA
TACTGGGATATGCTTAAACAAGGGAATGCCATAAGAGTTCCCAATTGCCTCGTCATAGCCTGGGCCATAGATTTT
TGTTACTGCTAATCTTGCTTCTTAAAGTTCACACCCAGTGCAAAAAACCCAATCAGCAAATAACCCCCAAAATCC
AATATATTTAGAAATGTAAGTGTTAAGAGATGTGCATTATGTACAAAATTGAAAATTGGTGCTAAAGTGGCAATG
TCAATTTAAAAATTTCTTGTCCAGATCTGACTGACTGACTCAGGAGATTATAGTTTCTACTCATTCTCTTCTCTT

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FIGURE 637C

TATCAGATCTTTCAAAAGCGCTTTTTAAAATTGATCAATGTGCAATTCTGTTTGAGTCTCTACAGTCCTATCCCT
TTTGGAATGAACAGCTACACAAATAAATATTCTTGGAACCTCGAAGTTGTCTTCAAACCTAGCTCTAGAAAATGTC
CCTAGTTGACATTAGTGTTGGTCTGTTAGAAGGGGAAATTGATTTGACTGCTTCATGTTTTGAAAAGAGCATTAA
GAGGGATTTGAGGAAGGTATATGTGGCTTTCTTTTTCTTAAGTTTGAATTACACTTGATTTCCCTTTGGGTTATT
AGGCAGATAAACCTTTGTCATTAGTAATACTTAGCACTGTCCAAAATGAAAAATGACTGCCAGTGTGTTGCACAT
ACATAAGAAAATTACATCTTACTGCGAAGTCTTTGGTTTGTTCCTTATTTGGTTTGACTTTGACTTACTATTTT
GCTATGGTCATATCCTTAATATCTGCGGTACATTTCATATGTATATATGTTGGGTGGGAGCATAATTGCCATTCCCA
TGTGTCTCAAGGAAGCTTAATGAGGAACTAATGAGTTAATATTAACCTCTTCTGAAGAAAGCTGACATTTTAGGA
GTATTAAGTCATCTGTCGTTAAGGAGCAGCAAGAATATATTATGATTGTATCACATGTTCCAGAAGAGCATTACC
CCTTACATAGAAAGCTCCTTGGAGATTTTCATGATGTTGGATGAACATCAGTTTATCCTTATACATCCCTATGAGC
TATAATTATCCTCATTGATACTTGAGGAACTGAAGTGACTTGCTCCAAAGTGACTACAAAAACATTGCAGTTT
GAGGCTTAGGTTGTAATCAGGTAATTTTGGTCTTGGACAGTAAGGGAAAATCCATAATACATAAAACACAAAAGT
TTAGAAAAGGGGGGGAAGTTGAGCTAGCAATGGGCATTTCTATTATTTAAGTTACATATCAGTTTCCAGGAATATT
TTTCAAATGGGACAACTAAAAAGTTGAGGACTAGAGCATCGTAGTGTCTAAGTGCACCTAATAACTTAATGCAT
GTGCACACACCCTCAGTTAATTTGTAAGAGAGTGACTTCTCATTGTTATTTGTGGAGAGGCTAATTATAGTAGCT
TCATTCTTTATTTTCTGTGTTCTTAAATTTTTTTTTTACATTTGAAAGTATGAAAATACTATTTTTGACACTTTAC
TGATACTCAGGGATTAAAAGTTAAATTTTACTGACTGTAGCAGCAGGTAAATCTCTTAAATTTACTCAGGTTTCC
TATCCTTTGCCTCCATATTTAAGAAAATATAGAATGCCTGCCAGGGAAATATATAAAAAATAAAAATTTCAAATAC
AATTTTAAAAATACCAATTTGTAAATAAACCAATTTTACAACTAAAATATTGTGTCTTTCCTTGCTTTTTATCCC
AATTTATCTCCCCTCCTAAGTTTGAGGAGTTTATATATTAAGGCTATTTCTTCATTTGTAAAAATGAAGTATGC
TATTTGCAAAGCAAAGCCCATGAAAAGCCCCAAATCATTTAAGTAAAGCTTACTGAATTGTTTTCAATTGTTTT
GGGAGAAATGTAACATAATTATAAGCAATTTATGTGGACCAGCAGCAAATAAATGTATGAGTACATTTGGGA

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FIGURE 638

MLTRKPSAAAPAAIPTGRGGDSAVRQLQASPLGAGATRSGVGTGPPSPIALPPLRASNAAAAAHTIGGSKHTMN
DHLHVGS SHAHGQIQVQQLFEDNSNKRTVLTTQPNGLTTVGKTGLPVVPERQLDSIHRRQGSSTSLKSMEGMGKVK
ATPMTPEQAMKQYMQLTAFEHHEIFSYPEIYFLGLNAKKRQGMTGGPNNGGYDDDQGSYVQVPHDHVAYRYEVL
KVIKGSGFGQVVKAYDHKVHQAVALKMRNEKRFHRQAAEEIRILEHLRKQDKDNTMNVIHMLENFTFRNHICMT
FELLSMNLIELIKKNKFQGFSLPLVRKFAHSILQCLDALHKNRIIHCDLKPENILLKQQGRSGIKVIDFGSSCYE
HQRVYTYIQSRFYRAPEVILGARYGMPIDMWSLGCILAE LLTGYP LLPGEDEGDQLACMIELLGMP SQKLLDASK
RAKNFVSSKGYPYCTVTTLSDGSVVLNGGRSRGKLRGPPESREWGNALKGCDPLFLDFLKQCLEWDFAVRMT
PGQALRHPWLRRLPKPPTGEKTSVKRITESTGAITSISKLP PPS SASKLRTNLAQMTDANGNIQORTVLPKLV
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FIGURE 639

GGCACGAGGGTAGCTTTCCAACATAAAGTGGAGGTTTCAACACAGGAGACTTTAAGCAAGTTCCAGTGTGTCTAT
ATTTGGTCTGGCTGATCGGCTGGACTCTGGCCTTCCCCGCTCACGTTAGCAGACAGCTCTGCCCTAGTGGGCGCT
TAGCCTGCGACGGCAGCCCCGAGAGGATGCTCTAACAAGCTTCTTTCTCCCCACCCCATTTCAGTTGTTCTCAGGTC
TGAATTCAAAATGGCCTCATCTCCTGCTGTCCTTCGAGCGTCCCGGCTGTACCAATGGAGCCTGAAGAGTTTCGGC
GCAGTTCTGGGGTCTCCACAGCTGAGGCAGGTTGGTCAGATCATTAGGGTTCCTGCTCGGATGGCGGCGACGCT
GATCCTGGAGCCTGCGGGCCGCTGCTGCTGGGACGAACCGGTGCGAATCGCCGTGCGCGGCTAGCCCCGGAGCA
GCCGGTCACGCTGCGCGCGTCCCTGCGCGACGAGAAGGGCGCGCTTTTCCAGGCCACGCGCGCTACCGCGCCGA
CACTCTTGGCGAGCTGGACCTGGAGCGCGCGCCGCGCTGGGCGGCAGCTTCGCGGGGCTTGAGCCCATGGGGCT
GCTCTGGGCCCTTGGAGCCCCGAGAAACCTTTGGTGGGCTGGTGAAGCGCGACGTGCGAACGCCCTTGGCCGTGGA
GCTGGAGGTGCTGGATGGCCACGACCCCGACCCCGGGCGGCTGCTGTGCCAGACGCGGCACGAGCGCTACTTCCT
CCCGCCCGGGGTGCGGCGCGAGCCGGTGGCGCTGGGCCGGGTGCGAGGCACGCTCTTCCTGCCGCCAGAACCTGG
GCCCTTTCTGGGATTGTGGACATGTTGGAAGTGGAGGTGGCCTGCTGGAGTATCGGGCTAGTCTGCTGGCTGG
GAAGGGTTTTGCTGTGATGGCTCTGGCTTATTATAACTATGAAGACCTCCCCAAGACCATGGAGACGCTCCATCT
GGAGTACTTTGAAGAAGCCATGAAGTACTTGGCTCAGTCATCCCGAGGTAAAAGGTCCAGGAGTTGGGCTGCTTGG
AATTTCCAAAGGGGGTGAGCTCTGCCTTTCCATGGCCTCTTTCTGAAGGGCATCACGGCTGCTGTGTCATCAA
CGGCTCTGTGGCCAATGTTGGGGGAACCTTACGCTACAAGGGCGAGACCCTGCCCCCTGTGGGCGTCAACAGAAA
TCGCATCAAGGTGACCAAAGATGGCTATGCAGACATTGTGGATGTCCTGAACAGCCCTTTGGAAGGACCTGACCA
GAAGAGCTTCATTCTGTGGAAGGGCAGAGAGCACCTTCCTGTTCCCTGGTAGGTCAGGATGACCACAAGTGGAA
GAGTGAGTTCTATGCTAATGAGGCCTGTAAACGCTTGAGGCCCATGGGAGGAGAAAGCCCCAGATCATCTGTTA
CCCAGAGACAGGGCACTATATTGAGCCTCCTTACTTCCCCCTGTGTCGGGCTTCCCTGCATGCCTTGGTGGGCAG
TCCTATTATCTGGGGAGGGGAGCCAGGGCTCATGTCATGGCTCAGGTGGATGCTTGGAACAAGTCCAGACTTT
CTTCCACAAACACTTGGGTGGCCACGAGGGGACAATCCCATCAAAAGTGTAAATTTTATTTGATCATGTGGCCTC
TCTGTTGCTAATCTCTCCTGGAACATCTGCCACATTTAGTGTGTGTATGTGTATTTCATTTCTTTGTTTTTAATA
ACTAAAGTTTTTTCCCCTCATTATTAAATGAATTTACCAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 640

MSNKLLSPHPHSVLRSEFKMASSPAVLRASRLYQWSLKSSAQFLGSPQLRQVGQIIRVPARMAATLILEPAGRC
CWDEPVRIAVRGLAPEQPVTLRASLRDEKGALFQAHARYRADTLGELDLERAPALGGSFAGLEPMGLLWALEPEK
PLVRLVKRDVRTPLAVELEVLDGHDPDPGRLLCQTRHERYFLPPGVRREPVRVGRVRGTLFLPPEPGPFPGIVDM
FGTGGGLLEYRASLLAGKGFVAVMALAYYNYEDLPKTMETLHLEYFEEAMNYLLSHPEVKGPVGVLGISKGGELC
LSMASFLKGITAAVINGSVANVGGLTRYKGETLPPVGVNRNRIKVT KDGYADIVDLNSPLEGPDQKSFI PVER
AESTFLFLVGQDDHNWKSEFYANEACKRLQAHGRRKPQIICYPETGHYIEPPYFPLCRASLHALVGSP I IWGGE P
RAHVMAQVDAWKQLQTFFHKHLGGHEGTIPSKV

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FIGURE 641

TCCTGGGGCCCAGCGCGGGTGGCTGCCGCGGCCCTCGGGCTGCGTGGGGAGGGGGCTTCGCCCCCTGTTGTCAT
TGCTCCTGCAGCCTTTTCGCTGGGACTGCGCGACACCGCCCCCGACCGGGTGCCCGCTGTGTGCCAGGCCGGGT
GCTGGGCACGGTCCCGCGAGTGCCCTATAAGGACTGCCAGGCAATAATGAAGGTTCTTTTACTGAAGGATGCGAA
GGAAGATGACTGTGGCCAGGATCCGTATATCAGGGAATTAGGATTATATGGACTTGAAGCCACTTTGATCCCTGT
TTTATCGTTTGAGTTTTTGTCTCTTCCAGTTTCTCTGAGAAGCTTCTCATCCTGAAGATTACGGGGGACTCAT
TTTTACCAGCCCCAGAGCAGTGGAAGCAGCAGAGTTATGTTTGGAGCAAAACAATAAACTGAAGTCTGGGAAAG
GTCTCTGAAAGAAAAATGGAATGCCAAGTCAGTGTATGTGGTTGGAAATGCTACTGCTTCTCTAGTGAGTAAAT
TGGCCTGGATACAGAAGGAGAAACCTGTGGAAATGCAGAAAAGCTTGCAGAATATATTTGTTCCAGGGAGTCCTC
AGCACTGCCTCTTCTATTTCCCTGTGGAAACCTCAAAAGAGAAATCCTGCCAAAAGCGCTCAAGGACAAAGGGAT
TGCCATGGAAAGCATAACTGTGTATCAGACAGTTGCACACCCAGGAATCCAAGGGAACCTGAACAGCTACTATTC
CCAGCAGGGGGTTCCAGCCAGCATCACATTTTTTAGTCCCTCTGGCCTCACATACAGTCTCAAGCACATTCAGGA
GTTATCTGGTGACAATATCGATCAAATTAAGTTTGCAGCCATCGGCCCACTACGGCTCGCGCGCTGGCCGCCCA
GGGCCTTCCTGTAAAGCTGCACTGCAGAGAGCCCCACGCCACAAGCCCTGGCCACTGGCATCAGGAAGGCTCTCCA
GCCCCATGGCTGCTGCTTGAGTGAGTCAGCCACCTAGCGCTGGCCCCATGCAGCCTCCCTGGGCTGGGCTGGCTCTGGAT
GGAGCCAGGCATCGGCAAGGGCTCTCGGGAGCTGCTGCCGTCAGACTCCTGCCTCAAGCCTGAGTGGAAGCACCT
GAGGACCGGGGATCGGGACCTGACCTGGGGCTGGCCTCAGGCCCCACGTGCACGTGACTGCCCTCTGTGGAAGCCA
GCTTAAACCCCTAGCCCTGTGAGAGCTTCTGTGCCACAGGAAGGAAGTCAAATAAACCACACTGACTACCTGT
GCTT

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FIGURE 642

MKVLLLLKDAKEDDCGQDPYIRELGlyGLEATLIPVLSFEFLSLPSFSEKLSHPEDYGGLIFTSPRAVEAAELCLE
QNNKTEVWERSLKEKWNKSVYVVG NATASLVSKI GLDTEGETCGNAEKLA EYICSRESSALPLLFP CGNLKREI
LPKALKDKGIAMESITVYQTV AHPGIQGNLNSYYSQQGV PASITFFSPSGLTYS LKHIQELSGDNIDQ IKFAAIG
PTTARALAAQGLFVSCTAESPTPQALATGIRKALQPHGCC

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FIGURE 643

CCCAGAAATTCTACCCAAGCTCCCTCAGCACC**ATG**TACCGAGCACTTCGGCTCCTCGCGCGCTCGCGTCCCCTCG
TGCGGGCTCCAGCCGAGCCTTAGCTTCGGCTCCCGGCTTGGGTGGCGCGGCCGTGCCCTCGTTTTGGCCTCCGA
ACGCGGCTCGAATGGCAAGCCAAAATTCCTTCCGGATAGAATATGATACCTTTGGTGAAGTAAAGGTGCCAAATG
ATAAGTATTATGGCGCCCAGACCGTGAGATCTACGATGAACCTTAAAGATTGGAGGTGTGACAGAACGCATGCCAA
CCCCAGTTATTAAAGCTTTTGGCATCTTGAAGCGAGCGGCCGCTGAAGTAAACCAGGATTATGGTCTTGATCCAA
AGATTGCTAATGCAATAATGAAGGCAGCAGATGAGGTAGCTGAAGGTAAATTAAATGATCATTTCCTCTCGTGG
TATGGCAGACTGGATCAGGAACCTCAGACAAATATGAATGTAAATGAAGTCATTAGCAATAGAGCAATTGAAATGT
TAGGAGGTGAAGTTGGCAGCAAGATACCTGTGCATCCCAACGATCATGTTAATAAAAGCCAGAGCTCAAATGATA
CTTTTCCCACAGCAATGCACATTGCTGCTGCAATAGAAGTTCATGAAGTACTGTTACCAGGACTACAGAAGTTAC
ATGATGCTCTTGATGCAAAATCCAAAGAGTTTGCACAGATCATCAAGATTGGACGTACTCATACTCAGGATGCTG
TTCCACTTACTCTTGGGCAGGAATTTAGTGGTTATGTTCAACAAGTAAATATGCAATGACAAGAATAAAAGCTG
CCATGCCAAGAATCTATGAGCTCGCAGCTGGAGGCACTGCTGTTGGTACAGGTTTAAATACTAGAATTGGCTTTG
CAGAAAAGGTTGCTGCAAAAGTGGCTGCACTTACAGGCTTGCCTTTTGTCACTGCTCCGAATAAAATTTGAAGCTC
TGGCTGCTCATGACGCTCTGGTTGAGCTCAGTGGAGCCATGAACACTACTGCCTGCAGTCTGATGAAGATAGCAA
ATGATATTTCGATTTTTTGGGTTCTGGTCCTCGGTCAGGTCGTTGGGAGAATTGATCTTGCCTGAAAATGAACCAGGAA
GCAGTATCATGCCAGGCAAGGTGAACCCTACTCAGTGTGAAGCAATGACCATGGTTGCAGCCCAAGTCATGGGGA
ACCATGTTGCTGTCAGTGTGCGGAGGCAGCAATGGACATTTTGAGTTGAATGTTTTCAAGCCAATGATGATTAAAA
ATGTGTTACACTCAGCCAGGCTGCTGGGGGATGCTTCAGTTTCCTTTACAGAAAACCTGCGTGGTGGGAATCCAGG
CCAATACAGAAAGGATCAACAAGCTGATGAATGAGTCTCTAATGTTGGTGACAGCTCTCAATCCTCATATAGGGT
ATGACAAGGCAGCAAAGATTGCTAAGACAGCACACAAAAATGGATCAACCTTAAAGGAACTGCTATCGAACTTG
GCTATCTCACAGCAGAGCAGTTTGACGAATGGGTAAAACCTAAGGACATGCTGGGTCCAAAG**TGA**TTTACATAAA
TTTATAATGAAAATAAACATGTATAAAATTTAAAAAACAGACTCCCATTTCCTTAAAAACGGATAAGTTTGAAAG
GAAACTGCTATTGAACCTAAGCATCTCTAGCAGAGCAATTTGATCAGTATATAAAACCCTAGGATGTGCTAGGTC
TAAGATGGATTAAACAAGTATAAAATAAAATACATTTATAAAATAAAAGGAAAACAGACTTAAAA

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FIGURE 644

MYRALRLILARSRLVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGAQTVRS
TMNFKIGGVTERMPTPVIKAFGILKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDFPLVVWQTGSGTQTN
MNVNEVISNRAIEMLGGEELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEF
AQIIKIGRTHQTQDAVPLTLGQEFSGYVQQVKYAMTRIKAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKVAAL
TGLPFVVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGELILPENEPGSSIMPGKVNPT
QCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLHSARLLGDASVSFTENCVVGIQANTERINKLMN
ESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIELGYLTAEQFDEWVKPKDMLGPK

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FIGURE 645A

CGTCCACCGTGGAGTCTCTCCTTGCTTTGGGTCCACTGAGCCCCACACATTGTTGAGTGTCTGATTGTCTCCTTG
CCCTTACAGGACAGGAAAGCGAAATCTCTGTTCCCTTTGTAGGGACCTTTCTTTTGTAGGTGAAAGGGACAGAAAT
ATGATTCTGGCCTCCTTGATGGTGAATACAGGAACACTTTCAGATAAATTACAATAGAGAGGAGTCAGCTTATTT
AAACAACTGAGGTTAAGCCAGAGATTGCAGTTAACAGTGAAAAAATTTAAAGCAAGTACCTGGATGGATGCAAA
GCAGTGCCCAGGAGACCCAACTTACGTGACAGAGATGATCATTGTCACTCATTTCATTATGTTTTGAGCACCAGCC
ATGTGCCAGGTCCAGAACTAGAAGAAACTTGGGTGTAGGTGAGATCATAGGAACAGTCCCTGCCCCAGCTGAACA
TCAGGAAGCCAGACTGGGAGCACATGCCGTGGCTGACTAGGACTCCAGCAGGGACCTGGGGTTCCATCAGATCAG
TGTAAGCGATGGTTTCCCAAATGAGACCTCTCCAGAGATGGTTTCATTCCACCCCGCAATGGCCACCAGAAACAT
TGTGCTGACCAGAGGGCTTCACTGCCCCAAACCCCAAAATCACACTCCAGGATGAGAAACCTAAAAAGTCTATCTT
GATGAGGCTTCATAGCTGGAACCACCCCTCATGGATCCACAGGCTGCATTTGATGAAAGGAGACTCCAGGAAGT
CGAGCCATTCCAGGCAGACATGTAGCAAAAGCCCGAGCTGGGGTCCGCCCTCATGCAATAAATAACACCTGTGCA
CATAAGAGAGGTGACAGGCAGGGCATCCCTGGGGACCTGGGCCTGTGGCACGTGAAGAAACACCCAAAGAGAGCAC
GAAGTCCCAATGCCATGACCAGATATTTCCGTGCCAGGCATGCTTCTGGGTCCCAGCAAAAGACACACAAATCCG
TGTCTTGGGGACCCACAGTCTAGTGACCTAGGGCTGGCCGGGTGCGACGCTTCTTTTCAAGGGCTCGAAAGCCT
CTGCATGGATGCAACTTTGGGGGAAAAGTAACCCCTAACCCCTCTGCTTCTCTCATCTCCCTCTTCTGTGTATAT
GTCTGTCTCTTTCTCTCTGTGTGTGCCCTTCCCCACTCCCATCCCATTCTTTTTTTTATTTATTTATTTTGGT
GGTGTGTGGCTCGGTTTTCTGTTGGTCCCTCTGTGTGGCCCTCCCTGCTGCAGAACTCGTCCAGCTCGGCCTCC
TCCGAAGCCTCGGAAACCTGCCAGTCAGTGAGCGAGTGACGCTCCCCACCTCTGTGAGCTCGGGCTCCACCATG
GGTGCTGGGTGTCCACAGAGAAGGTGACCGCCGGGTGGCAGCCACAGCGGCCCTCTCCCTGGTCCCCCTG
CCTGCTGTCTCAGACAGCCCTCACAGCCGCGGCAACCTGGAAGCTCAGAATCGACACCAAGAGTGGGGCTCCTCTT
GGGGACAGAGGTGGGACAAGGCTGAGAGCATTTTCTAGAATGAGTGCTGGCTGCTGGACAATGACCACATGGT
TGTCTCAAGGGAGAGGAAGGGGTATGGGGAATTTGGAGGTGTGAAGGCTTTCTCCAGACCAGGTGTTGCGTGCC
TGTCCATCCTCCTCCCTCCCTTCCCGAGCCACCCACCAGACCGTTGGATGAGCCATGTCACTGTGTGAGAGGCTG
TGTGCTTTTCCGCTTTTTTAGTTTGCACCCCCACCCCTGCCCCTTGATTGAGAATGTGCTCCTGAGCAATGCGAC
GATTTTGGAAACCTAGAATGAACAGATTTCATTGAAGATGCTTTGGAATTTTTAAATTTGCATAATGAAATGAGC
AAATCACTATCACCATTAAATGAGGCTTCATTAGTTACATTATCAAAAACCATTTGACAAGGCCACAAATTGAGGG
CACTGATCAATTTCCAACTTCTAAAACGTAGGTCAAACATAGATGCTTATTTGCTGTCAAACCTCATGTGCATT
TTTGACCCCCGGCTCTTTTCTCTTGCATCACAGATCATCCGTGAGCAGCAGAGCCCCAATGTTTGTGTTTATTTAT
AAATATTCAGGTTTCCCTCCCTTGAATGTCAATGCCATTTTGTATCTCCGCACTCATCTGTTATATTAATTTT
TTTTCTTTCCCCCCCCCTTTTTTTGTTTGTGTTCCAGTTGTCTAACGGGTTTTCTCACTATAGTTTATCAAGTGAG
TCCCACGTGGGGCCACGGGTGCAGGCCTTTTCCCTCATTGCCCTGCCTGCCCTCCCGCTGCTCCCTCGGGTCACC
TCTGTCCACCTTCCAGACTACGCTCATTATTACACCATTTGGGCCCCGGC**ATGTT**CCCGTCATCTCAGATCCCTAGC
TGGAAGGACTGGGCTAAGCCTGGGCCCTATGACCAGCCTCTGGTGAACACCCTGCAGCGCCGCAAGAGAAAGCGA
GAACCGGACCCCAACGGGGGAGGACCCACTACCGCCAGCGGCCACCTGCAGCAGCTGAGGAGGCTCAGAGACCA
CGGAGCATGACTGTATCGGCTGCCACCAGGCCTGGTGAGGAGATGGAGGCTTGTGAGGAGCTGGCCCTGGCCCTG
TCTCGGGGCCCTGCAGCTGGACACCCAGAGGAGCAGCCGGGACTCGCTTCAGTGCTCCAGCGGCTACAGCACCCAG
ACAACCACCCCTGCTGCTCTGAGGACACCATCCCTTCCCAAGTTTCAGATTATGATTATTTCTCTGTAAGTGGT
GACCAGGAGGCAGATCAGCAGGAGTTCGACAAGTCCCTCCACCATTTCCAAGAAACAGCGACATCAGCCAGTCTTAC
CGACGGATGTTCCAAGCCAAGCGTCCAGCCTCAACTGCTGGCTCCCCACCACCTGGGACCTGCTATGCTCACT
CCAGGGGTGCAACTATCCGACGGACCCCTTCCACCAAGCCTTCTGTCCGCCGGGAACCATTTGGAGCTGGTCCC
ATCCCCATCAAGACACCCGTGATCCCTGTCAAGACCCCAACCGTCCAGACCTCCAGGGGTGTTGCCAGCCCT
CCAGATGGGCCAGAAGAGCGGGGGGAGCACAGCCCTGAGTCGCCATCTGTGGGTGAGGGCCCCCAAGGTGTCACC
AGCATGCCCTCCTCAATGTGGAGCGGCCAAGCTTCCGTTAACCTCCACTTCCAGGCCCCAAGCCCAGTATCCCT
GAGGAGCACAGACAGGCAATTCCAGAAAGTGAAGCTGAAGACCAGGAACGGGAACCCCCAAGTGCCACTGTCTCC
CCAGGCCAGATTCCAGAGAGTGACCCTGCAGACCTGAGCCCAAGGGATACTCCACAAGGAGAAGACATGCTGAAC
GCCATCCGAAGGGGCGTGAACTGAAGAAGACCACGACAAACGATCGCTCAGCCCTCGCTTTTTCT**TAG**GTTTAC
AAGAAATGCGCCGGTGGGGAATGAAGTGTTCATTAATAAAACCTAATTTGTCTTGATCCATTCCACTCTATAAT
AAAACAAAAGATTTTGTAGGCAACTCGGAATATAGCTCTTTTGAAAGTACTCGACACCTTTAGATAAGAATTAA

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FIGURE 645B

ACCAACCTATGTAAGTACATAATCTTGATCTTTTAATTTGTAAATATTGACAATTTTCTTTCTGCACATTTTAA
TCTTAGTTTCCCTTTTGATTTTTCTGAAGGTGCCAAATTCATTTAACTTTTTTACAAGTCTTTGTAAAATTTA
AATGCATAAAGGGGGTTGGGGCAGGGGAACACGAAGTAGTTAATTTTAGAAAAGGATTTACTATACTTCACTCT
TCTTTTTTTTTCCCCACAAGCTTTTGTAGATGCATTGTAGTAGTCTAGCTTAGAAGCAAATGCAAGTTATTTAA
TGTACAAACTAAATGGGTAAGAGGTAAAATCTTCATTTAAATATACTATGTTCTGGATGAAAAGAGCAGGAGTAA
CAATTGATGAGCAATATTAGAGTGAAGTAAATCTGGAAATGGTAGACTGTGTTGGGATTGGGGGAGGGCCATG
GGAGGGGTACATCGTCAACATAGCCGATCCTGTTACATTTAAGAGTAGCCTCGTAGGTTGAATTTCTTCTGGTAG
CTTCATGGTAAATGCATCCGAATAAGCCATACTGGATTGCAGTGTGTTGTTCTGTAGGGTGTGTTAAGGACTTGAC
TTCCTTTCTCCCATGATTCTCTGGACTGCACACAGCACCCACAACCAGCCCCATGCATGCTGCTGCCTCTGGGC
AGTCGTAGAAATCTCCCACTTCAGTTTCTCGTTGATTGTACTCACCTTTATGGAATCCAAATACATCCAAAAGGGT
AAGGCAGTTTTTAAAAATGTGAAAACATTTAAAAATGATAATAGCAGGGAATTCTTAGATTATAGTAAATGCCTTT
TACTTAACTGTGCCAGCAGGCTGGGTGCGTTAAAAAGCCCCAGTATTTTGAAAAAACTCGAACAGATTTGACAA
GGGTAGCCAGCTTGGAGTCTAGCAACTTGCCAATGTGTTTACCAATCTGGGGGCTTGTTTTTCTTTTCTTTCTTC
AAATAAATGGCAGTTAACTGGCTTTACAGTAAACATTGAAGAGAGGAGGATTTGTTTATTGTCACTGGGAATCTG
ACCACTATACTGTCCTTTTTTTTGTATTCTGGGTAATGTTTTTTGGAAAAGATTTGTCTTTTCTAAGTGGAAGTTA
AATTTGTTATACTGCCATCCCTAAAGCCAACAGAGATTTGTAGATTTAAAGGGATCACATTTGAAGACAATAG
TGTTTAAGAAAGCAAGCAAGTCCCTTAGCAGTCAGGTCATAACAGGGCACATTTCTGACCGAACCTCTCAAGGC
AGAGGAGGAGTTTGGTGGGTTTCATACACCTGCAGATTCTGTTGGCTCTAACCTCAATTACCTAATCTTATG
CTTTAACACATAACTGCATTGGATGTGAGAGTAACGTACCGTATGGTCATTGTTCTATATATTAACATTGAACAC
TGCTGCGATTGCTCAAGGACATTTTATGTTACGGCTTTAAAGCAAAGGCATGATTATTAGAACTATTTAAGCTT
TTTTCTTTGAAAAACAAGCTTCTTTTACAGAATATAAACAACAGTAGTGCCTGTGGTTTAGCCCAACCAATCTTGA
TGACTAAAAGTAGCTGATGCATTGTGCATATGATGCTTGAGATGGTTTTTGCAAAGCAGAAATCGCTGCAAGGT
AATCACAATAGATAAAAGTGGTATTTTAAACCTTTGAAATAAATGGATGTAAGTGTACCTTGGTACAGCTTTTCA
CTTGTTTAGTTTTTAAACGTTAGTATAATCTGAATAAATAAATGTTGCCAAATTCAATGTAGAAAGAATGTGAC
AACACACCTTGGGTAGTTCTGCTTGTGTTTTTGCATATTGTAAAAGCAGTGTACAGCTAAAAAGAAAGAAATCG
TTTCTAACAGTAAATTATTGTGCTTTAGTTGCTAGTTTGTACTGAGAGTTGACCTCTCCCTGTGCAGTTTTTTGT
TCTAAACTTGTATAAATAACAATTGTGTAATGTGTCTCCCTCCTACATTGTAACAATTGCTTCAGCCTACGTTAT
AAATAAAGAACCCTAGATT

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FIGURE 646

MFPSSQIPSWKDWAKPGPYDQPLVNTLQRRKEKREPDNNGGGFTTASGPPAAAEAAQRPRSM TVSAATRPGEEME
ACEELALALSRGLQLDTQRSSRDSLQCSSGYSTQTTTPCCSEDTIPSQVSDYDYFSVSGDQEQEFDKSSTIP
RNSDISQSYRRMFQAKRPASTAGLPTTLGPAMVTPGVATIRRTFSTKPSVRRGTIGAGPIPIKTPVIPVKTP TVP
DLPGVLPAPPDGPEERGEHSPESPSVGEGPQGVTSMPSSMWSGQASVNPPLPGPKPSIPEEHRQAIPESAEADQE
REPPSATVSPGQIPESDPADLSPRDT PQGEDMLNAIRRGVKKLKKTTTNDRSAPRFS

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FIGURE 647

CCGATTCTGGCTTTTGCAAGGCTGTGGTTCGGTGGTTCATCAGTGTCTCTTGACCCAGGTCCAGCGAGCCTTTTCCC
TGGTGTTCGAGCTGTTGTTGTACCGCCGCCGTCGCCGCCGTCGCCGCCCTGCTCTGCGGGGTC**ATGG**TGTGCTTCC
GCCTCTTCCCGGTTCCGGGCTCAGGGCTCGTTCTGGTCTGCCTAGTCCTGGGAGCTGTGCGGTCTTATGCATTGG
AACTTAATTTGACAGATTAGAAAATGCCACTTGCCTTTATGCAAAATGGCAGATGAATTTACAGTACGCTATG
AAACTACAAATAAACTTATAAACTGTAACCATTTAGACCATGGCACTGTGACATATAATGGAAGCATTTGTG
GGGATGATCAGAATGGTCCCAAATAGCAGTGCAGTTCGGACCTGGCTTTTCTGGATTGCGAATTTTACCAAGG
CAGCATCTACTTATTCAATTGACAGCGTCTCATTTTCTTACAACACTGGTGATAACACAACATTTCTGTATGCTG
AAGATAAAGGAATTTCTTACTGTTGATGAACCTTTGGCCATCAGAATTCATTGAATGACCTTTTATAGATGCAATA
GTTTATCAACTTTGGAAAAGAATGATGTTGTCCAACACTACTGGGATGTTCTTGTACAAGCTTTTGTCCAAAATG
GCACAGTGAGCACAAATGAGTTCTGTGTGATAAAGACAAAACCTTCAACAGTGGCACCCACCATACACACCCTG
TGCCATCTCCTACTACAACACCTACTCCAAAGGAAAAACCAGAAGCTGGAACCTATTAGTTAATAATGGCAATG
ATACTTGTCTGCTGGCTACCATGGGGCTGCAGCTGAACATCACTCAGGATAAGGTTGCTTCAGTTATTAACATCA
ACCCAATACAACCTACTCCACAGGCAGCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCAGCACCATTA
AGTATCTAGACTTTGTCTTTGCTGTGAAAAATGAAAAACCGATTTTATCTGAAGGAAGTGAACATCAGCATGTATT
TGGTTAATGGCTCCGTTTTCAGCATTGCAAATAACAATCTCAGCTACTGGGATGCCCCCTGGGAAGTTCTTATA
TGTGCAACAAAGAGCAGACTGTTTCAGTGTCTGGAGCATTTAGATAAATACCTTTGATCTAAGGGTTCAGCCTT
TCAATGTGACACAAGGAAAGTATTCTACAGCTCAAGACTGCAGTGCAGATGACGACAACCTTCTTGTGCCCATAG
CGGTGGGAGCTGCCTTGGCAGGAGTACTTATTCTAGTGTGCTGGCTTATTTTATTGGTCTCAAGCACCATCATG
CTGGATATGAGCAATTT**TAGA**ATCTGCAACCTGATTGATTATATAAAAAATACATGCAATAACAAGATTTCTTA
CCTCTCAGTTGTTGAAACACTTTGCTTCTTAAAAATTGATATGTTGAACTTTAATTCTTTTATCAATCCCAGCAT
TTTGAGATCAGTCTTTATTAATAAAAACCTGTTCTCTTTAATCAGCTTAAATCCAAAGTGTATATTTACTGGTC
CTGGAGACAACTTGTTCAAAGAACATCAACGTGCAATGTTTAAAGGTCTATCTTAAGAAGCCCTGGCCAAATT
TTGATCCTAACCTTGAAGTATGCCTTGAACCTATTAAACATGGCCATTATAAGAATAAAATATGTAGTTGTGTCTT
AATGGAATTAATAAATGTCAATTTCACTACTGGTGTCTGTTTCAATGTATAAGGACTATAGTGATTTAAACTCA
TCAATGTGCCTTTGCATAAAGTTGATTAAATAAATATTGATGTGGTATAAATGCCCATCAGATATGCT

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FIGURE 648

MVCFRLFPVPGSGLVLVCLVLGAVRSYALELNLTDSENATCLYAKWQMNFVRYETTNKTYKTVTISDHGTVTYN
GSICGDDQNGPKIAVQFGPGFSWIANFTKAASTYSIDSVSFSYNTGDNTTFPDAEDKGILTVDELLAIRIPLNDL
FRCNSLSTLEKNDVVQHYWDVLVQAFVQNGTVSTNEFLCDKDKTSTVAPTIIHTTVPSPTTTPKEKPEAGTYSV
NNGNDTCLLATMGLQLNITQDKVASVININPNTTHSTGSCRSHALLRLNSSTIKYLDVFVAVKNENRFYLYKEVN
ISMYLVNGSVFSIANNNLSYWDAPLGSSYMCNKEQTVSVSGAFQINTFDLRVQPFNVTQGKYSTAQECSLDDDTI
LIPIIIVGAGLSGLIIVIVIAAYVIGRRKSYAGYQTL

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FIGURE 649A

CCGCCGTCCCTGCGTCCCTTCGGTCTCTGCTCCCGGGACCCGGGCTCCGCCGCAGCCAGCCAGCATGTCGGGGATC
AAGAAGCAAAAGACGGAGAACCAGCAGAAATCCACCAATGTAGTCTATCAGGCCACCATGTGAGCAGGAATAAG
AGAGGGCAAGTGGTTGGAACAAGGGGTGGGTTCGAGGATGTACCGTGTGGCTAACAGGTCTCTCTGGTGTGGA
AAAACAACGATAAGTTTTGCCCTGGAGGAGTACCTTGTCTCCCATGCCATCCCTTGTTACTCCCTGGATGGGGAC
AATGTCCGTCATGGCCTTAACAGAAATCTCGGATTCTCTCCTGGGGACAGAGAGGAAAAATATCCGCCGGATTGCT
GAGGTGGCTAAGCTGTTTGCTGATGCTGGTCTGGTCTGCATTACCAGCTTTATTTCTCCATTCGCAAAGGATCGT
GAGAATGCCCCGAAAATACATGAATCAGCAGGGCTGCCATTCTTTGAAATATTTGTAGATGCACCTCTAAATATT
TGTGAAAGCAGAGACGTAAAAGGCCTCTATAAAAAGGCCAGAGCTGGGGAGATTAAAGGATTTACAGGTATTGAT
TCTGATTATGAGAAACCTGAAACTCCTGAGCGTGTGCTTAAAACCAATTTGTCCACAGTGAGTGACTGTGTCCAC
CAGGTAGTGGAACCTTCTGCAAGAGCAGAACATTGTACCCTATACTATAATCAAAGATATCCACGAACTCTTTGTG
CCGGAAAACAACTTGACCACGTCCGAGCTGAGGCTGAAACTCTCCCTTCATTATCAATTACTAAGCTGGATCTC
CAGTGGGTCCAGTTTTTGAGCGAAGGCTGGGCCACTCCCTCAAAGGTTTCATGCGGGAGAAGGAGTACTTACAG
GTTATGCACTTTGACACCCTGCTAGATGATGGCGTGATCAACATGAGCATCCCCATTGTACTGCCCGTCTCTGCA
GAGGATAAGACACGGCTGGAAGGGTGCAGCAAGTTTGTCTGGCACATGGTGGACGGAGGGTAGCTATCTTACGA
GACGCTGAATTCTATGAACACAGAAAAGAGGAACGCTGTTCCCGTGTTGGGGGACAACATGTACAAAACACCCC
CATATCAAATGGTGATGGAAGTGGGGACTGGCTGGTTGGTGGAGACCTTCAGGTGCTGGAGAAAAATAAGATGG
AATGATGGGCTGGACCAATACCGTCTGACACCTCTGGAGCTCAAACAGAAATGTAAAGAAATGAATGCTGATGCG
GTGTTTGCAATTCAGTTGCGCAATCCTGTCCACAATGGCCATGCCCTGTTGATGCAGGACACTCGCCGCAGGCTC
CTAGAGAGGGGCTACAAGCACCCGGTCCCTCTACTACACCCTCTGGGCGGCTGGACCAAGGATGACGATGTGCCT
CTAGACTGGCGGATGAAGCAGCACGCGGCTGTGCTCGAGGAAGGGGTCTGGATCCCAAGTCAACCATTGTTGCC
ATCTTTCCGTCTCCCATGTTATATGCTGGCCCCACAGAGGTCCAGTGGCACTGCAGGTCCCGGATGATTGCGGGT
GCCAATTTCTACATTGTGGGGAGGGACCTGCAAGGAATGCCCCATCCTGAAACCAAGAAGGATCTGTATGAACCC
ACTCATGGGGGCAAGGTCTTGAGCATGGCCCCCTGGCCTCACCTCTGTGGAATCATTCCATTCCGAGTGGCTGCC
TACAACAAAGCCAAAAAAGCCATGGACTTCTATGATCTAGCAAGGCACAATGAGTTTGACTTCATCTCAGGAACT
CGAATGAGGAAGCTCGCCCGGAAGGAGAGAATCCCCCAGATGGCTTCATGGCCCCCAAAGCATGGAAGGTCCCTG
ACAGATTATTACAGGTCCCTGGAGAAGAACTAAGCCCTTTGGCTCCAGAGTTTCTTTCTGAAGTGCTCTTTGATTA
CCTTTTCTATTTTTATGATTAGATGCTTTGTATTAAATTGCTTCCCTCAATGATGCATTTTAACTTTTATAATGAA
GTAAAGTTGTGTCTATAATTAAAAAAAATATATATATATACACACACATATACATACAAAGTCAAACCTGAA
GACCAAATCTTAGCAGGTAAAAGCAATATTCTTATACATTTTATAATAAAATTAGCTCTATGTATTTTCTACTGC
ACCTGAGCAGGCAGGTCCCAGATTTCTTAAGGCTTTGTTTGACCATGTGTCTAGTTACTTGCTGAAAAGTGAATA
TATTTTCCAGCATGTCTTGACAACCTGTACTCTTCCAATGTCATTTATCAGTTGTAAAATATATCAGATTGTGTC
CTCTTCTGTACAATTGACAAAAAAAATTTTTTTTTCTCACTCTAAAAGAGGTGTGGCTCACATCAAGATTCTTC
CTGATATTTTACCTCATGCTGTACAAGCCTTAATGTGTAATCATATCTTACGTGTTGAAGACCTGACTGGAGAAA
CAAAATGTGCAATAACGTGAATTTTATCTTAGAGATCTGTGCAGCCTAGATTTTACCTCATGCTGTACAAAGCCT
TAATGTTGTAATCATATCTTACGTGTTGAGACCTGACTGGAGAAACAAAATGTGCAATAACGTGAATTTTATCTT
AGAGATCTGTGCAGCCTATTTTCTGTACAAAAGTTATATTGTCTAATAAGAGAAGTCTTAATGGCCTCTGTGAA
TAATGTAACCTCAGTTACACGGTGACTTTTAAATAGCATACAGTGATTTGATGAAAGGACGTCAAACAATGTGGCGA
TGTCGTGGAAAGTTATCTTTCCCGCTCTTTGCTGTGGTCATTGTGTCTTGCAAAAGGATGGCCCTGATGCAGCA
GCAGCGCCAGCTGTAATAAAAAATAATTCACACTATCAGACTAGCAAGGCACTAGAAGTGGAAAAGACCACAGAA
AACAAAGAATCCAACCCTTTTCATCTTACAGGTGAACAAACTGTGATGATGCACATGTATGTGTTTTGTAAGCTGT
GAGCACCGTAACAAAATGTAAATTTGCCATTATTAGGAAAGTGCTGGTGGCAGTGAAGAAGCACCCAGGCCACTT
GACTCCCAGTCTGGTGCCCTGTCTACACCAGACAACACAGGAGCTGGGTGAGATTCCCCTCAGCTGCTTAACAAA
GTTCCCTCGAACAGAAAGTGCTTACAAAGCTGCCTTCTCGGATACTGAAAGGTCGAGTTTTCTGAACTGCACTGAT
TTTATTGCAAGTTGAAAACCCAAAGCTATTCCAAAGATTTCAAGCTGTTCTGAGACATCTTCTGATGGCTTTACT
TCCTGAGAGGCAATGTTTTTACTTTATGCATAATTCATTGTTGCCAAGGAATAAAGTGAAGAAACAGCACCTTTT
TAATATATAGGTCTCTCTGGAAGAGACCTAAATTTAGAAAGAGAAAACCTGTGACAATTTTTCATATTCTCATTCTT
AAAAAACACTAATCTTAACTAACAAAAGTTCTTTTGAGAATAAGTTACACACAATGGCCACAGCAGTTTGTCTTT
AATAGTATAGTGCTTATACTCATGTAATCGGTTACTCACTACTGCCTTTAAAAAAAACCAGCATATTTATTGAAA

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FIGURE 649B

ACATGAGACAGGATTATAGTGCCCTTAACCGATATATTTTGTGACTTAAAAAATACATTTAAACTGCTCTTCTGC
TCTAGTACCATGCTTAGTGCAAATGATTATTTCTATGTACAACTGATGCTTGTTCTTATTTAATAAATTTATCA
GAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 650

MSGIKKQKTENQQKSTNVVYQAHVSRNKRQVVGTRGGFRGCTVWLTGLSGAGKTTISFALEEYLVSHAIPCYS
LDGDNVRHGLNRNLGFSPGDREENIRRIAIEVAKLFADAGLVCITSFISPFADRENARKIHESAGLPFFEIFVDA
PLNICESRDVKGLYKKARAGEIKGFTGIDSDYEKPEPTEPERVLKTNLSTVSDCVHQVVELLQEQNIVPYTIKDIH
ELFVPENKLDHVRAEAETLPSLSITKLDLQWVQVLSEGWATPLKGFMRKEYLQVMHFDTLDDGVINMSIPIVL
PVSAEDKTRLEGCSKFVLAHGRRVAILRDAEFYEHKKEERCSRVTGTTCTKHPHIKVMESGDWLVGGLQVLE
KIRWNDGLDQYRLTPLELKQCKEMNADAVFAFQLRNPVHNGHALLMQDTRRLLERGYKHPVLLHPLGGWTKD
DDVPLDWRMKQHAAVLEEGVLDPKSTIVAIFPSPMLYAGPTEVQWHCSRMIAGANFYIVGRDPAGMPHPETKKD
LYEPHGGKVLSMAPGLTSVEIIPFRVAAYNKAKKAMDFYDLARHNEFD FISGTRMRKLAREGENPPDGFMAPKA
WKVLTDYRSLEKN

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FIGURE 651

GGAGAGAGGACCTATTTCTACCTAAGGACATTCCCGGAAGGCAATGGGTTTCAAACAATATCCTGAAGAGACTCA
TCTCGGGGAACCTAAGCAGGTGGTAATCAGAGAACACAGAGCCCCCGGAAGAATTTTATGGCATTTTCAGGCAAGCC
ACAGGCCAGCCTGGGGAAAAAGCAGGAAGAAAACTGGCAATACGAGGGCCCAACCCAAAAGTTATTCCTGAAGA
GAAACAACGTGTCAGCACCAGATGGGCCTTCAGACCCAGCATCTCCGCGAGCAGTGAGCAAAGCGGGGCACAGC
AGCCTCCCGGTTTACAGGTTGAAAGGATTGTTGACAAAAGGAAAAATAAAAAAGGGAAGACAGAGTATTTGGTTC
GGTGGAAAGGCTATGACAGCGAGGACGACACTTGGGAGCCGGAACAGCACCTCGTGAACCTGTGAGGAATACATCC
ACGACTTCAACAGACGCCACACGGAGAAGCAGAAGGAGAGCACATTGACCAGAACAACAGGACCTCTCCCAACA
ATGCTAGGAAACAAATCTCCAGATCCACCAACAGCAACTTTTCTAAGACCTCTCCTAAGGCACTCGTGATTGGGA
AAGAĆCACGAATCCAAAAACAGCCAGCTGTTTGCTGCCAGCCAGAAGTTCAGGAAGAACACAGCTCCATCTCTCT
CCAGCCCGGAAGAACATGGACCTAGCGAAGTCAGGTATCAAGATCCTCGTGCCCTAAAAGCCCCGTTAAGAGCAGGA
CCGCAGTGAGCGGCTTTCAGAGCGAGAGCCCTGAGAACTGGACCCCGTCGAGCAGGGTCAGGAGGACACAGTGG
CACCCGAAGTGGCAGCGGAAAAGCCGGTCGGAGCTTTATTGGGCCCCGGTGCCGAGAGGGCCAGGATGGGGAGCA
GGCCAGGATACACCCACTAGTGCCTCAGGTGCCCGGCCCTGTGACTGCAGCCATGGCCACAGGCTTAGCTGTTA
ACGGGAAAAGGTACATCTCCGTTTATGGATGCATTAACAGCCAATGGGACAACCAACATACAGACATCTGTTACAG
GAGTGACTGCCAGCAAAAGGAAATTTATTGACGACAGAAGAGACCAGCCTTTTGACAAGCGATTGCGTTTTACGCG
TGAGGCAAAACAGAAAGTGCCTACAGATACAGAGATATTGTGGTCAGGAAGCAGGATGGCTTCACCCACATCTTGT
TATCCACAAAAGTCCCTCAGAGAATAACTCACTAAATCCAGAGGTAATGAGAGAAGTCCAGAGTGCTCTGAGCACGG
CCGCTGCCGATGACAGCAAGCTGGTACTGCTCAGCGCCGTTGGCAGCGTCTTCTGTTGTGGACTTGACTTTATTT
ATTTTATACGACGTCTGACAGATGACAGGAAAAGAGAAAAGCACTAAAATGGCAGAAGCTATCAGAACTTCGTGA
ATACTTTTCATTCAATTTAAGAAGCCATTATTGTAGCAGTCAATGGCCAGCCATTGGTCTAGGAGCATCTATAT
TGCCCTCTTTGCGATGTGGTTTGGGCTAATGAAAAGGCTTGGTTTCAAACACCCTATACCACCTTCGGACAGAGTC
CAGATGGCTGTTCTACCGTTATGTTTCCCAAGATAATGGGAGGAGCATCTGCAAACGAGATGCTGCTCAGTGGAC
GGAAGCTGACAGCGCAGGAGGCGTGTGGCAAGGGCCTGGTCTCCAGGTGTTTTGGCCCGGGACGTTCACTCAGG
AAGTGATGGTTTCGATTAAGGAGCTTGCCTCGTGCAATCCAGTTGTGCTTGAGGAATCCAAAGCCCTCGTGCGCT
GCAACATGAAGATGGAGCTGGAGCAGGCCAACGAGAGGGAGTGTGAGGTGCTGAAGAAAATCTGGGGCTCGGCCC
AGGGGATGGACTCCATGTTAAAGTACTTGCAGAGGAAGATCGATGAGTTCTGAGTGTGCGGGCTGCCCACTGGTGA
CACCGGGATCGGGCTGAGCAGGAGAACATCACCGGCTCCAGTTCCCCTGATCCATTCTCACAGCCTGAAACAAGC
TCACCCGTAGCTTACGCTTGGAAGCAGGACTGGGAACATCCACGCTATTTATTATCGAGGAGTTTTAAAGTACTG
TAACTTTAAAATAAAATACTACAAAGCTTCTTTGTCVAAACGTCATTATTTTATACTTATATACACGCAGGTGTA
AAAGTATAAAGGTGAGCACTAGACTGCTCTTAGAAGCTCTAATTTTTGTTTTCTTTGGCTAGTACTGTATAAAAA
ACAGAAATTGTGTTTTATTGGTTTTGGATGACAGAAAAGTCTGGAATAATGTTTGTGTTTTCTCATTCTTCTCTCT
AGAACACAGAAATCTAAGGGGTGTTAGCCAGCCTCGCCTCCCTGCCCCACGTAGAGACACAGAGTGATGTGAGGC
GTTGGCTTTTTCTCCAAGAAGGTACAGATACCTCAGATTCGGGAAACTCAAATCAAAGACTTAGCTTCTAGGA
TAAATACTTCTGATGAAAAATCCGCTGAGGAGCATACCCCAAACCAGACATATGCTTAGGATTCATGCTGAGATA
TCAATTGGTTTCCCCTTCTTTTTAAATACGTCCAGTTCTTACCCAGTTAACATGAAGAAACCACTGTCTCTAGA
AGAAAGCTTGTTTTGCAGTATTAGTGAATCACTGAATAGCTTAAGTATGACTATCTAAGTTATAAGTTAGTCTTT
AGTGGGTTTTTAAATAGTTTTTCTGACCTTCTGAAAAATAACTACATAAGTGCTTCTTGTTGCTGGGTGAGAAAT
ACTACTTTATAGACAGTTTTTGGTTTTCTGTTTGAGATATGATTGATGTATTTACCAAATAAAATATTTTTAT
GTTTATAAAGTGTAATTTTTAGGTTCACTTAGAATATATTTTATTTAATAAGTTAAAATCTTTTTGGCACACTAT
TAAATGCAAAAACCTCCTTTCAAAAA

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FIGURE 652

MAFQASHRPAWGKSRKKNWQYEGPTQKLFLKRNNVSAPDGPSPDISASSEQSGAQQPPGLQVERIVDKRKNKKG
KTEYLVRWKGYDSEDDTWEPEQHLVNCEEYIHDFNRRHTEKQKESTLIRTNRTSPNNARKQISRSTNSNFSKTSP
KALVIGKDHEKNSQLFAASQKFRKNTAPSLSSRKNMDLAKSGIKILVPKSPVKSRTAVDGFQSESPEKLDPVEQ
GQEDTVAPEVAAEKPVGALLGPGAERARMGSRPRIHPLVPQVPGPVTAAMATGLAVNGKGTSPFMDALTANGTTN
IQTSVTGVTASKRKFIDRRDQPFDKRLRF SVRQTESAYRYRDIVVRKQDGFTHILLSTKSENNSLNPEVMREV
QSALSTAAADDSKLVLLSAVGSVFCGLDFIYFIRRLTDDRKRESTKMAEAI RN FVNTFIQFKKPIIVAVNGPAI
GLGASILPLCDVVWAN EKAWFQTPYTTFGQSPDGCSTVMFPKIMGGASANEMLLSGRKLTAQEACGKGLVSQVFW
PGTFTQEVMVRIKELASCNPVVL EESKALVRCNMKMELEQANERECEVLKKIWGSAQGMD SMLKYLQRKIDEF

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FIGURE 653

AGGATGATCAAGCTGTTCTCGCTGAAGCAGCAGAAGAAGGAGGAGGAGTCGGCGGGCGGCACCAAGGGCAGCAGC
AAGAAGGCGTCGGCGGGCGCAGCTGCGGATCCAGAAGGACATAAACGAGCTGAACCTGCCCCAAGACGTGTGATATC
AGCTTCTCAGATCCAGACGACCTCCTCAACTTCAAGCTGGTCATCTGTCCTGATGAGGGCTTCTACAAGAGTGGG
AAGTTTGTGTTCAAGTTTTAAGGTGGGCCAGGGTTACCCGCATGATCCCCCAAGGTGAAGTGTGAGACAATGGTC
TATCACCCCAACATTGACCTCGAGGGCAACGTCTGCCTCAACATCCTCAGAGAGGACTGGAAGCCAGTCCTTACG
ATAAACTCCATAATTTATGGCCTGCAGTATCTCTTCTTGGAGCCCAACCCGAGGACCCACTGAACAAGGAGGCC
GCAGAGGTCCCTGCAGAACAACCGGCGGCTGTTTGAGCAGAACGTGCAGCGCTCCATGCGGGGTGGCTACATCGGC
TCCACCTACTTTGAGCGCTGCCTGAAATAGGGTTGGCGCATACCCACCCGCCGCCACGGCCACAAGCCCTGGCAT
CCCCTGCAAATATTTATTGGGGGCCATGGGTAGGGGTTTGGGGGGCGGCCGGTGGGGGAATCCCCTGCCTTGGCC
TTGCCTCCCCTTCCTGCCACGTGCCCCTAGTTATTTTTTTTTTAACACCAGGCTAACTAAAGGGGAATGTTACTG
C

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FIGURE 654

MIKLFSLKQQKKEEESAGGTKGSSKKASAAQLRIQKDINELNLPKTCDISFSDPDDLNFKLVICPDEGFYKSGK
FVFSFKVGQGYPHDPPKVKCETMVYHPNIDLEGNVCLNILREDWKPVLINSIIYGLQYLFLEPNPEDPLNKEAA
EVLQNNRRLFEQNVQRSMRGGYIGSTYFERCLK

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FIGURE 655A

GGAGCCCTGGGCGCGGGGGCGGCGTGTCTAGGTGGTTGCGGAGCTGGTAAGAATCATATTCTAAGAACTCAGCCAC
TCAGGTATCCACCATGGTGCTGGGTCTGAACAGAAGATGTCTAGATGACAGTGTCTTCTGGAGATCATGGGGAGTC
TGCCAGTCTTGTTAACATCAACCCTGCCTATAGTAATCCCTCTCTTTCACAGTCCCCTGGGGACTCAGAGGAGTA
CTTCGCCACTTACTTTAATGAGAAGATCTCCATTCTGAGGAGGAGTACTCTTGTTTTAGCTTTTCGTAAACTCTG
GGCTTTACCCGACCAGGTTTTCTTATGAGCATTGCCTACCTGGATCCAGGAAATATTGAATCCGATTTGCAGTC
TGGAGCAGTGGCTGGATTTAAGTTGCTCTGGATCCTTCTGTTGGCCACCCTTGTGGGGCTGCTGCTCCAGCGGCT
TGCAGCTAGACTGGGAGTGGTTACTGGGCTGCATCTTGTCTGAAGTATGTCACCGTCAGTATCCCAAGGTCCCACG
AGTCATCCTGTGGCTGATGGTGGAGTTGGCTATCATCGGCTCAGACATGCAAGAAGTCATTGGCTCAGCCATTGC
TATCAATCTTCTGTCTGTAGGAAGAATTCTCTGTGGGGTGGCGTTCTCATCACCATTGCAGATACTTTTGTATT
TCTCTTCTTGGACAAATATGGCTTGCAGGAAGCTAGAAGCATTTTTTTGGCTTTCTCATCACTATTATGGCCCTCAC
ATTTGGATATGAGTATGTTACAGTGAACCCAGCCAGAGCCAGGTACTCAAGGGCATGTTTCGTACCATCCTGTTT
AGGCTGTGCACTCCACAGATTGAACAGGCTGTGGGCATCGTGGGAGCTGTCTCATGCCACACAACATGTACCT
GCATTCTGCCTTAGTCAAGTCTAGACAGGTAAACCGGAACAATAAGCAGGAAGTTCGAGAAGCCAATAAGTACTT
TTTCATTGAATCCTGCATTGCATCTTTGTTTCTTTCATCATCAATGTCTTTGTTGTCTCAGTCTTTGCTGAAGC
ATTTTTTGGGAAAACCAACGAGCAGGTGGTTGAAGTCTGTACAAATACCAGCAGTCCCTCATGCTGGCCTCTTTCC
TAAAGATAACTCGACACTGGCTGTGGACATCTACAAAGGGGGTGTGTGTGCTGGGATGTTACTTTGGGCCTGCTGC
ACTCTACATTTGGGCAGTGGGGATCCTGGCTGCAGGACAGAGCTCCACCATGACAGGAACCTATTCTGGCCAGTT
TGTCTATGGAGGGATTCTGAACCTAAAGTGGTCACGCTTTGCCCGAGTGGTTCTGACTCGCTCTATTGCCATCAT
CCCCACTCTGCTTGTGTCTTCCAAGATGTAGAGCATCTAACAGGGATGAATGACTTTCTGAATGTTCTACA
GAGCTTACAGCTTCCCTTTGCTCTCATACCCATCCTCACATTTACGAGCTTGGCGCCAGTAATGAGTGACTTTGC
CAATGGACTAGGCTGGCGGATTGCAGGAGGAATCTTGGTCCTTATCATCTGTTCCATCAATATGTACTTTGTAGT
GGTTTATGTCCGGGACCTAGGGCATGTGGCATTATATGTGGTGGCTGCTGTGGTCAGCGTGGCTTATCTGGGCTT
TGTGTTCTACTTGGGTTGGCAATGTTTGATTGCACTGGGCATGTCTTCTGACTGTGGGCATACGGTAAGCAT
CTCTAAAGGCCTGCTGACAGAAGAAGCCACCCGTGGCTACGTTAATAACTGGATTAGTCTGTCTTCTGCAGG
TAGCCATCAGAGCCAGTGTGTTTCTATGGTTTACTGTGTGAACATAGCCAAAAGTATGTGCCGTTGCACAGACTG
TGTTTATGACTCAACCGTTGGTTGGAAAAGACTTTGTTTCATGTGTATTTGAAAGATGGAATTATTTTTTCTTC
CTGACCTAACCTTAGAAGTGGATTAGGGTGGGATCTTTGAAAAGCTGACATTTGCTGCTATCATTCCAACACTAA
ATTCTTAAGTAGTTGCCCCAAGGGCCAGCTCAGTTTATCCTTCGGAGAGACAAGGATATGCATGATTCTTAACCAG
GCTATATGTTAAAAAAAATTGGAATATGCAATACATTTTTTATTATACAACTACAGAATGAGTATGCAAGTTT
TATTTATCAAAATGTAATGGATTTTTAAAGGCTGAGAAATTTTCTTATACCTACCTTTTCAGTTATTTTAATTA
TACCAAATTATCAACTAGAAATAGCTTCATCCATATGAAATATAAAATGAAGAGACACCTAGCTCTATCAGGCTTA
GGATTCTTTGAACTTATTTCCACTTTAATTTCTCAGTGGAAAGTTAAGAGGGGTGAGAAAACAAAGAAGGGGAAAA
ACTGACAACTAACAAAACCAGCACCATCGCTAGGTGGTGCTTACTAATTACCTTCTCAGGATTTTCTCAGAT
TGAAAAGCTTATGAGGATTTCTTGGGAGTCTTAATAACCTGCCGTGTAGTACAGAGCTTCTCTGATGATATTTAC
TCTTGAGCACATGTGGTTGTAAAACCTTAACCTTTCTTCTCCAGGAGGGTGGTGATAGAAACAGATGGTAGTATT
TATGAACTGATGTTCTCGTGAAATGTTGAGGGTGGGGAGAAAAGACTTTAAGGGAGGAGAGCCATCTATTTTGT
CCTAAAGCCACCTCTCAGCAGAATCGTCATGTTTTTCTGATGCACCGCTCTGCTTCATGCCCAAGATGACTTGCG
AGGCAATCTCAGGAGCTGTGGACTTAACCGTTGCAAAGCACACTGTCTTCTCAGCGTTCTCTGCAAGTCAGTAG
GTGTTAGTATGGTTGCAAAGTTCACTGTCTCAGCAAAGTTGAACTGGGCTACCTCTCTACAGCTGTTTCTCAGA
GGGAAAAATCTTGAGACCATGGTGGAGCTCTGGAGTCAGAGGAAATGGGTGTCTTCAGCACAAAGCTGCTGCTTT
TACTTCAGCCACTTCTGACATTTTACATACCGAGCCTGAGATTGTGTGATTATCTCAAATCAAATCACTTTGAT
GGAGATAAATAATCAAACTGTTTTATAGTCATTGATTTGGTGAGAACAGTAATGGAATGGTGTGAAGGACT
TCTCATTTTTTGGAGCTTTCTTCCAGAGTCTGGCTGATTGGTGTTCGCTGTTTCATCTGAGCCCCCAAAGCAT
ATTACTGATACTGCACACAGTCAAAAGCGCAGACTGGATGGATGGTCTTTTATAAGGCATTTAAGGGTACACTA
CTGTGTTTCACTGACCATAACATTTTTCTTAGCCCCCTCAAGTAATATAGCACAGAGTTATGAATGACAATTTCCCT
AACCATTCTCTCATATCTGCCTCTTCCCTTACCATCGTAATTCTCCAACTGGTCATAAAGGCACTCTGTGA
AGATATTGGGGACTGACATCTTAAGCTCTCACCTGGCTGCAGTAGGAAAGGCCAACTGACGACAAAAAAAAT
TCTTTATAAGATGATATGGTAACATGTATCTTTGCCCTGGGTCTGGGTGGGTCCAGTCAGTCTCAGATTTACAA

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FIGURE 655B

GCATTTAGGAGCCTAGGTAAAAGCTGCTAGTATTCTTTTAAAAGTTATATTTATGACTTGCAATGATAGAAAAC
CCTTCCAATTAAATGGCATTATATAATATTATGTGTGTACTTCACAGTGTAAAAATACCCTCATACGTTATTGC
ATTTGATCTTCACAGAAAGTGCATTTTAACCAGTACTCTGGGTGCAATAAATAATATGTAGAAATTTAAGTCCTC
CAATTCCAGCATATCCAGTGAGTTTTGACAGTGTGTTTATGTGGAATGTTTAAGGATATACAATTGTACTTTATA
TAAATTGGTTCTTGTTCTTCTTAAATGTGACATGAAATAATTGTGCTGCTACATTATACTGGAAATTAACAGGGG
AAAAGGGAAGAGCTCTTGGCTCCCTTGAGGTTCTGCTAGTGGTGTTAGGAGTGGTTACAACCTGAGCTTTTAGTAA
CCATTTAACCGTATGTAACTTGGTTTCTAATTAAAAAAAATTTCTTTTCC

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FIGURE 656

MVLGPEQKMSDDSVSGDHGESASLGNINPAYSNPSSLQSPGDSEEFATYFNEKISIPEEEEYSCFSFRKLWAF TG
PGFLMSIAYLDPGNIESDLQSGAVAGFKLLWILLLLATLVGLLLQRLAARLG VVTGLHLAEVCHRQYPKVPRVILW
LMVELAIIGSDMQEVIGSAIAINLLSVGRIPLWGGVLITITADTFVFLFLDKYGLRKLEAFFGFLITIMALTFGYE
YVTVKPSQSQVLKGMFVPSCSGCRTPQIEQAVGIVGAVIMPHNMYLHSALVKS RQVNRNNKQEVREANKYFFIES
CIALFVSFIINVFVSVFAEAFFGKTNEQVVEVCTNTSSPHAGLFPKDNSTLAVDIYKGGVVLGCYFGPAALYIW
AVGILAAQSSTMTGTYSQGQFVMEGFLNLKWSRFARVVLTRSAIIPTLLVAVFQDVEHLTGMNDFLNVLSLQL
PFALIPILTFTSLRPVMSDFANGLGWRIAGGILVLIICSINMYFVVVYVRDLGHVALYVVAAVVSVAYLGFVFYL
GWQCLIALGMSFLDCGHTVSISKGLLTEEATRGYVK

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FIGURE 657

GCGAGGGTAGCCATGACGGCCTCCGTGCTGCGAAGTATCTCGCCAGCCCTGCGCCCGACTAGCGGGCTTCTGGGA
ACTTGGCAGACGCAGCTTAGAGAGACTCACCAGCGAGCGTCATTGTTGTCTTTCTGGGAACCTCATTCCCATGAGA
TCAGAACCTCTTCGAAAAAAGAAGAAGGTAGATCCTAAAAAAGACCAAGAAGCAAAGGAGCGCTTGAAAAGGAAG
ATCCGAAAACCTGGAAAAGGCTACTCAAGAGCTAATTCCTATTGAAGATTTTATTACCCCTCTAAAGTTCTTGGAT
AAAGCAAGAGAGCGGCCTCAGGTGGAGCTCACCTTTGAGGAGACTGAGAGGAGAGCTCTGCTTCTGAAGAAGTGG
TCCTTGTACAAGCAGCAAGAGCATAAGATGGAGAGGGACACCATCAGGGCTATGCTAGAAGCCCAGCAGGAAGCT
CTGGAGGAACCTGCAACTGGAATCCCCGAAGCTCCATGCTGAGGCCATCAAGCGGGATCCTAACCTGTTCCCTTT
GAGAAGGAAGGGCCACATTACACACCACCGATCCCTAACTACCAACCCCTGAAGGCAGGTACAATGACATCACC
AAGGTGTACACACAAGTGGAGTTTAAGAGATTAGACTTGCAGGCTGCTATCCTTAACATGCTGCCCTGAGAGTAG
GAATGACCAGGGTTCAAGTCTGCTTTCCACAGAATCAGGCATGCTGTTAATAATACTGGTTTAATCAAAAAAAA
AAAAA

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FIGURE 658

MTASVLRSSISPALRPTSGLLGTWQTQLRETHQRASLLSFWEIPMRSEPLRKKKKVDPKKDQEAKERLKRKIRKL
EKATQELIP IEDFITPLKFLDKARERPQVELTFEETERRALLKKWSLYKQQEHKMERDTIRAMLEAQQEAL EEL
QLESPKLHAEAIKRDPNLFPFKEGPHYTPPIPNYQPPEGRYNDITKVYTQVEFKR

[illegible]

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FIGURE 659B

AAATGGACTTCTCTGAAGCTGTGTTTAGTGAAATGAGCTCAAGTACATGAATGTTAGTTGTTATCACATACAGCA
AATTCCCTTTTTTTTTCTTTTTCTATGAGCACACTCTGCTGCTTCTAAACCTTACATGCCTGATGGCACCTTACTC
CAGCAGCCTCCAGGTGCTTTCATTTTCACTTCCAGTCTAAGCCAGTGGCTCCTGCCACTGCCCTCCCATTTACCTA
GATGGCACCTCCTTTGGTGAAACCACGGCCAATGTTCCCTTAGCTGCACCAGGCCCGAAGCTGTTCCCATGCTTGA
GCTTCCATGGGGAGGATGCTGAGTGAGCAGTTTCCTACGCCGTGGATCTAGCAAGCCATGGAGACAGGTAGCATT
TGTAAGATGCTGCACAGGAGCAGCATTATCCCCAAAGATATTACAGGGTAGACACGTTTTAACTGAAATCAATCA
AGATAACTTTATTCAAAGAGCAGCCCGCTTTGTGTGACTAAAATGAAACAAGACAGTTGAATTGTGTGACTTGAA
GATTACCAATGATTTTGAGGCTTTTCTATAATAAAAAAGAGGTTCTAACCATTATTTGGGAACAAAGAGAGTTTTC
ATCTTTTTTCAGATCAAAACCATTCTGTAAAATCTTTGTTGTTTAAATTAAATGTGCCGTTATTTACCCCTGATGT
TATTTATGACTATGTGCCGATTCTGCTTGGGCTGTTTGCTGTTGGCTGGTAATAATATATTTGATTTAAATGCT
GTTGACTGTGCTATTAAGTCTGCGTCAGTAAACTCCAAAGATCTTTTGTTTTGGCTTTAGTATCATATGTGC
TTTTTCTGTATCCTGAGCGCTCTATATGATCATGTTAATTTAAAGCTTTATACACATTGTTGTTTTTGCTGGTCT
CATCTTTGGTAATAIGCTATACCCCACTGCTGCCCCGACACTGCCCTTTAGCTGCAGAGCTGGATTAGCTGTTGAC
CATTTGATGCTGTTGTCTGTCTGGCAGGGACTGAATGACCTGATGTCAGATTTAGATTCTTCCTGGGGATTACAC
AGCTATGAATGTATTTGCTTCTAAAACCTCCCAAAGTGAATCTAATCTTAAACTACAAGTTGTAAGTATTCTGA
AATTGGGAAACATTTATTTTAAATGCAATCAGGTAGTGTGCTTTTTTACAGCATAATAAATATATGTTTCAAAA

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FIGURE 660

MMRLRGSGMLRDLLLRSPAGVSATLRRAPLVTLCCRPRGGGRPAAGPAAAAARLHPWWGGGGWPAEPLARGLSSS
PSEILQELGKGSTHPQPGVSPPAAPAAPGPKDGPGETDAFGNSEGKELVASGENKIKQGLLPSLEDLLFYTIAEG
QEKIPVHKFITALKSTGLRTSDPRLKECMDMLRLTLQTTS DGVM LDKDLFKKCVQSNIVLLTQAFRRKLVIPDFM
SFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSTGDTKVPFCLQSCVKPLKYAIAVNDL
GTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMV NAGAI VVTS LIKQGVNNAEKFDYVMQFLNKMAGNEYVGFSN
ATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDYFYQLCSIEVTCEASVMAATLANGGFCPITGERVLSP
EAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVAGGILLVVPNVMGMMCWSPPLDKMGNSVKGIHFCHDLVSLC
NFHNYDNLRHFAKKLDPRREGGDQRVKSVINLLFAAYTGDVSALRRFALSAMDMEQRDYDSRTALHVAAAEGHVE
VVKFLL EACKVNPF PKDRWNNTPMDEALHFGHHDVFKILQEYQVQYTPQGDS DNGKENQTVHKNLDGLL

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FIGURE 661

CGCAGCAAACACATCCGTAGAAAGGCAGCGCGGCCGCCGAGAGCCGCAGCGCCGCTCGCCCCGCCGCCCCCACCCC
GCCGCCCCGCCCCGGCGAATTGCGCCCCGCGCCCCCTCCCTTCGCGCCCCCGAGACAAAGAGGAGAGAAAGTTTGCG
CGGCCGAGCGGGGCAGGTGAGGAGGGTGAGCCGCGCGGGAGGGGCCCGCCTCGGCCCGGCTCAGCCCCCGCCCC
CGCCCCCAGCCCCGCCGCCGCGAGCAGCGCCCGGACCCCCCAGCGGCGGGCCCCCGCCCGCCAGCCCCCGGCCCG
CC**ATG**GGCGCCGCGGCCCGCACCCCTGCGGCTGGCGCTCGGCCTCCTGCTGCTGGCGACGCTGCTTCGCCCGGCCG
ACGCCTGCAGCTGCTCCCCGGTGCACCCGCAACAGGCGTTTTGCAATGCAGATGTAGTGATCAGGGCCAAAGCGG
TCAGTGAGAAGGAAGTGGACTCTGGAAACGACATTTATGGCAACCCTATCAAGAGGATCCAGTATGAGATCAAGC
AGATAAAGATGTTCAAAGGGCCTGAGAAGGATATAGAGTTTATCTACACGGCCCCCTCCTCGGCAGTGTGTGGGG
TCTCGCTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGAAAGGCCGAGGGGGACGGCAAGATGCACATCA
CCCTCTGTGACTTCATCGTGCCCTGGGACACCCTGAGCACCAACCAGAAAGAAGAGCCTGAACCACAGGTACCAGA
TGGGCTGCGAGTGCAAGATCACGCGCTGCCCCATGATCCCGTGCTACATCTCCTCCCCGGACGAGTGCCTCTGGA
TGGACTGGGTACAGAGAAGAACATCAACGGGCACCAGGCCAAGTTCTTCGCCTGCATCAAGAGAAGTGACGGCT
CCTGTGCGTGGTACCGCGGCGGCGCCCCCAAGCAGGAGTTTCTCGACATCGAGGACCCAT**TAA**GCAGGCCTCC
AACGCCCCCTGTGGCCAACTGCAAAAAAAGCCTCCAAGGGTTTCGACTGGTCCAGCTCTGACATCCCTTCCTGGAA
ACAGCATGAATAAAACACTCATCCC

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FIGURE 662

MGAAARTLRLALGLLLLATLLRPADACSCSPVHPQQAF CNADVIRAKAVSEKEVDSGNDIYGNPIKRIQYEIKQ
IKMEFKGPEKDIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDGKMHITLCDFIVPWDTLSTTQKKS LNHR YQM
GCECKITRCPMIPCYISSPDECLWMDWVTEKNINGHQAKFFACIKRSDGSCAWYRGAAPPKQEFLDIEDP

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FIGURE 663

GAATTCGGCACGAGCGACGCGGCCAGAGGCCAGGAACATTCCGCGCGTGGACCAGCCGGGCCAGGGCGATGCTG
CGGGTGCGGTGTCTGCGCGGCGGGAGCCGCGGCGCCGAGGCGGTGCACTACATCGGATCTCGGCTTGGACGAACC
TTGACAGGATGGGTGCAGCGAACTTTCCAGAGCACCCAGGCAGCTACGGCTTCCTCCCGAACTCCTGTGCAGCT
GACGACAAAGCCACTGAGCCTCTGCCCCAAGGACTGCCCTGTCTCTTCTTACAACGAATGGGACCCCTTAGAGGAA
GTGATAGTGGGCAGAGCAGAAAACGCCTGTGTTCCACCGTTCACCATCGAGGTGAAGGCCAACACATATGAAAAG
TACTGGCCATTTTACCAGAAGCAAGGAGGGCATTATTTTCCCAAAGATCATTGAAAAAGGCTGTTGCTGAAATT
GAAGAAATGTGCAATATTTTAAAAACGGAAGGAGTGACAGTAAGGAGGCCTGACCCCATTTGACTGGTCATTGAAG
TATAAACTCCTGATTTTGAAGTCTACGGGTTTATACAGTGCAATGCCTCGAGACATCCTGATAGTTGTGGGCAAT
GAGATTATCGAGGCTCCCATGGCATGGCGTTCACGCTTCTTTGAGTACCGAGCGTACAGGTCAATTATCAAAGAC
TACTTCCACCGTGGCGCCAAGTGGACAACAGCTCCTAAGCCCACAATGGCTGATGAGCTTTATAACCAGGATTAT
CCCATCCACTCTGTAGAAGACAGACACAAATTGGCTGCTCAGGGAAAATTTGTGACAACCTGAGTTTGAGCCATGC
TTTGATGCTGCTGACTTCATTTCGAGCTGGAAGAGATATTTTTCACAGAGAAGCCAGGTTACAACTACCTAGGC
ATTGAATGGATGCGTAGGCATCTTGCTCCAGACTACAGAGTGCATATCATCTCCTTTAAAGATCCCAATCCCATG
CATATTGATGCTACCTTCAACATCATTGGACCTGGTATTGTGCTTTCCAACCCTGACCGACCATGTCACCAGATT
GATCTTTTCAAGAAAGCAGGATGGACTATCATTACTCCTCCAACACCAATCATCCCAGACGATCATCCACTCTGG
ATGTCATCCAAATGGCTTTCCATGAATGTCTTAATGCTAGATGAAAAACGTGTTATGGTGGATGCCAATGAAGTT
CCAATTCAAAAGATGTTTGAAAAGCTGGGTATCACTACCATTAAAGTTAACATTTCGTAATGCCAATTCCCTGGGA
GGAGGCTTCCATTGCTGGACCTGCGATGTCCGGCGCCGAGGCACCCTACAGTCCTACTTGGACTGAACAGGCCTG
ATGGAGCTTGTGGCTGGCCTCAGATACACCTAAGAAGCTTAGGGGCAAGGTTTATTCTCCTGCTTTAAAAAGTGC
ATGAACTGTAGTGCTTTAAACAATCATCTCCTTAACAGGGGTGTAAGCCTGGTTTGCTTCTATTACTTTTCTTT
GACATAAAGAAAATAACTTCTGCTAGGTATTACTCTCTACTCCTAAAGTTATTTACTATTTGGCTTCAAGTATAA
AATTTTGGTGAATGTGTACCAAGAAAAAATTAGTCACCTGAGTAACTTGGCCACTAATAATTAACCATCTACCTC
TGTTTTTAATTTTCTTTCCAAAAGGCAGCTTGAAATGTTGGTCCTAATCTTAATTTTTTTTCTCTCTATAGAC
TTGAGAATGTTTTTCTCTAAATGAGAGAAAGACTTAGAATGTACACAGATCCAAAATAGAATCAGATTATCTCTT
TTTTTCTAAAGGAGAGAAAGACTTAGAACATACACAGATCCTAAGTAGAACCAGGTAATTGTCTCTTTTTCTAAT
AAGGAATTTGGGTAAATTTTAAATTTTGTTTTTTAAAAAATAACCTAGACTATGCAAAACATCAAAGTGAATTT
TCCATGAATGTTTTTAATATTCTCATCTCAACATTGTGATATATGCTACTAAAAACCTTTTCATATACATCTTAC
CTCATTTCAAGTGAATTATTTTAATCTTTTTCTCTCTTTCCAAAATTTACAGGAATGTTTAGTGTAATTGGATT
TCGCTATCAGTTCCCATCCTTAAGTTTTGATATTCAATATCTGATAGATACACTGCATCTTTGGTCATCTAAGAT
TTGTTTACAAATGTGCAAATTATTTAGAGCATAGACTTTATAAGCATTAAAAAACTAATGGAGGTAAACCTA
AATGCGATGTGAAATAATTTTAGTGTTGATACTGTATGTGTATTTTTATTCTAATAAACTTTTGTGTTCCAGATT
GAAAA

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FIGURE 664

MLRVRLRGGSRGAEAVHYIGSRLGRTLIGWVQRTFQSTQAATASSRNSCAADDKATEPLPKDCPVSSYNEWDPL
EEVIVGRAENACVPPFTIEVKANTYEKYWPFFYQKQGGHYFPKDHLKKAVAEIEEMCNILKTEGVTVRRPDPIDWS
LKYKTPDFESTGLYSAMPRDILIVVGNEIIEAPMAWRSRFFEYRAYRSIIKDYFHRGAKWTTAPKPTMADELYNQ
DYP IHSVEDRHKLA AQKFVTTEFEP CFDAADFIRAGRDIFAQRSQVTNYLGIEWMRRHLAPDYRVHII SFKDPN
PMHIDATFNIIGPGIVLSNPDRPCHQIDL FKKAGWTII TPPTPIIPDDHPLWMSSKWLSMNVLM LDEKRVMDAN
EVP IQMFEKLGITTIKVNIRNANSLGGGFHCWTCDVRRRGTLQSYLD

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FIGURE 665A

ATGGGGAGAAGACGGAGGCTGTGTCTCCAGCTCTACTTCCTGTGGCTGGGCTGTGTGGTGCTCTGGGCGCAGGGC
ACGGCCGGCCAGCCTCAGCCTCCTCCGCCAAGCCGCCCCGCCCCAGCCGCCGCCGAACAGGTTCCGGTCCGCT
ACAGCAGGCTCTGAAGGCGGGTTTCTAGCGCCCGAGTATCGCGAGGAGGGTGCCGCAGTGCCAGCCGCGTCCGC
CGGCGAGGACAGCAGGACGTGCTCCGAGGGCCCCAAGTGTGCGGCTCCAGATTCCACTCCTACTGCTGCCCTGGA
TGGAAGACGCTCCCTGGAGGAAACCAGTGCATTGTCCCGATTTGTAGAAATAGTTGTGGAGATGGATTTTGTTC
CGTCCTAACATGTGTACTTGTTCAGTGGGCAAATATCATCAACCTGTGGATCAAAATCAATTCAGCAGTGCAGT
GTGAGATGCATGAATGGTGGGACCTGTGCAGATGACCACTGCCAGTGCCAGAAAGGATATATTGGAACCTATTGT
GGACAACCTGTCTGTGAAAATGGATGTGAGAATGGTGGACGTTGCATCGCCCAACCGTGTGCTTGTGTTTATGGG
TTCCTGGTCCACAGTGTGAAAGAGATTACAGGACAGGCCCCGTGTTTCACTCAGGTCAACAACCAGATGTGCCAA
GGGCAGCTGACAGGCATTGTCTGCACGAAGACTCTGTGCTGTGCCACCACTGGACGGGCGTGGGGCCATCCCTGT
GAGATGTGTCCAGCCCAGCCTCAGCCCTGCCGACGGGGTTTTCATCCCCAACATCCGCACTGGAGCTTGCCAAGAT
GTTGATGAATGCCAGGCTATCCCAGGGATATGCCAAGGAGGAAACTGTATCAATACAGTGGGCTCTTTTGAATGC
AGATGCCCTGCTGGTCACAAACAGAGTGAAACTACTCAGAAATGTGAAGACATTGATGAGTGCAGCATCATTCT
GGGATATGTGAAACTGGTGAATGTTCCAACACCGTGGGAAGCTATTTTTGTGTTTGTCCACGTGGATATGTAAAC
TCAACAGATGGCTCTCGATGCATCGATCAGAGAACAGGCATGTGTTTCTCGGGCCTGGTGAATGGCCGCTGTGCA
CAAGAGCTCCCGGGGAGAATGACGAAAATGCAGTGCTGTGTGAGCCTGGCCGCTGCTGGGGCATCGGAACCATT
CCTGAAGCCTGTCTGTGAGAGGTTCTGAGGAATATCGCAGACTTTGCATGGATGGACTTCCAATGGGAGGAATT
CCAGGGAGTGCTGGTTCCAGACCTGGAGGCACTGGGGGAAATGGCTTTGCCCAAGTGGCAATGGCAATGGCTAT
GGCCAGGAGGGACAGGCTTCATCCCCATCCCTGGAGGCAATGGCTTTTCTCCTGGCGTTGGGGGAGCCGGTGTG
GGGGCCGGGGGACAGGGACCTATCATCACTGGACTAACAATTCTGAACCAGACAATAGATATCTGTAAGCATCAT
GCTAACCTTTGTTTAAATGGACGCTGTATACCAACTGTCTCAAGCTACCGATGTGAATGCAACATGGGTTATAAG
CAGGATGCAAATGGAGATTGTATAGATGTTGATGAATGCACATCAAATCCCTGCACTAATGGAGATTGTGTTAAC
ACACCTGGTTCTATTATTGTAAATGTGCTGCTGGATTCCAGAGGACTCCTACCAAGCAAGCATGCATTGATATT
GATGAGTGCATCCAGAATGGGGTTCTTTGTAAAAACGGTCGATGCGTGAAGTGCAGATGGAAGTTTCCAGTGCATT
TGCAATGCCGGCTTTGAATTAACACAGATGGAAAAAAGTGTGTTGATCATGATGAATGTACAACCTACCAACATG
TGTTTGAATGGAATGTGCATCAATGAAGATGGCAGCTTCAAGTGCATCTGCAAACCAGGATTTGTCTTGGCTCCA
AATGGGCGTTACTGTACTGATGTTGATGAATGCCAGACCCCAGGAATCTGCATGAATGGGCACTGCATCAACAGT
GAAGGGTCTTCCGCTGTGACTGTCCCCCAGGCCTGGCTGTGGGCATGGATGGACGTGTGTGTGTTGATACTCAC
ATGCGCAGTACCTGCTATGGAGGAATCAAGAAAGGAGTGTGTGTGCGTCCTTTCCCGGTGCAGTGACCAAGTCC
GAATGCTGCTGTGCCAATCCAGACTATGGTTTTGGAGAACCCTGCCAGCCATGCCCTGCAAAAAATTACAGCTGAA
TTCCACGGCCTTTGTAGTAGTGGAGTAGGTATCACTGTGGATGGAAGAGATATCAATGAATGTGCTTTGGATCCT
GATATATGTGCCAATGGGATTTGTGAAAACCTACGTGGTAGTTACCGTTGTAATTGCAACAGTGGCTATGAACCA
GATGCCTCTGGAAGAACTGTATTGACATTGATGAATGTTTAGTAAACAGACTGCTTTGTGATAACGGATTGTGC
CGAAACACGCCAGGAAGTTACAGCTGTACGTGCCCCACAGGGTATGTGTTCCAGGACTGAGACAGAGACCTGTGAA
GATATAAATGAATGTGAAAGCAACCCATGTGTCAATGGGGCCTGCAGAAACAACCTTGATCTTTCAATTGTGAA
TGTTTCGCCCCGGCAGCAAACCTCAGCTCCACAGGATTGATCTGTATTGACAGCCTGAAGGGGACCTGTTGGCTCAAC
ATCCAGGACAGCCGCTGTGAGGTGAATATTAATGGAGCCACTCTGAAATCTGAATGCTGTGCCACCCTCGGAGCC
GCCTGGGGGAGCCCCCTGTGAGCGGTGTGAACTAGATACAGCTTGCCCAAGAGGGCTTGCCAGGATTAAAGGTGTT
ACGTGTGAAGATGTTAATGAGTGTGAGGTGTTCCCTGGCGTTTGTCCAAATGGACGCTGTGTCAACAGTAAGGGA
TCTTTTTCATTGCGAGTGCCCTGAAGGCCTTACGTTGGATGGGACTGGCCGTGTATGTTTGGATATTTCGCATGGAG
CAGTGTTACTTGAAGTGGGATGAAGATGAATGCATCCACCCGTTTCTGGAAAGTTCCGCATGGATGCCTGCTGC
TGTGCTGTGCGGGCGGCTTGGGGCACCGAGTGTGAGGAGTGCCCCAAACCTGGCACCAAGGAATACGAGACACTG
TGCCCCCGCGGGGCTGGCTTTGCTAACCGAGGGGATGTTCTTACTGGGCGGCCATTTTACAAAGACATCAATGAA
TGCAAAGCATTTCTGGGATGTGCACTTATGGGAAGTGCAGAAATACAATCGGAAGCTTCAAATGCCGTTGCAAT
AGTGGCTTTGCTCTAGACATGGAGGAAAGAACTGCACGGACATCGACGAGTGCAGGATTTCTCCTGACCTCTGT
GGCAGTGGAACTGCGTCAATACACCGGGCAGCTTTGAGTGCAGTGTTCGAAGGCTATGAAAGTGGCTTCATG
ATGATGAAGAACTGCATGGACATTGACGGATGTGAACGTAACCCTCTCCTTTGTAGGGGTGGCACCTGTGTGAAC
ACTGAGGGCAGCTTTTCAGTGTGACTGCCCCTGGGACACGAGCTGTACCATCCCGTGAGGACTGTGTGGATATT

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FIGURE 665B

AATGAATGCTCCCTGAGTGACAATCTCTGCAGAAATGGAAAATGTGTGAACATGATTGGAACCTATCAGTGCTCT
TGCAATCCTGGATATCAGGCTACGCCAGACCGCCAGGGCTGTACAGATATTGATGAATGTATGATAATGAACGGA
GGCTGTGACACCCAGTGACAAATTCAGAGGGAAGCTACGAATGCAGCTGCAGTGAGGGTTATGCCCTGATGCCA
GATGGGAGATCGTGTGCAGACATTGATGAATGTGAAAACAATCCTGATATCTGTGATGGCGGCCAGTGTAACCAAC
ATTCTTGGAGAGTATCGCTGCCTCTGCTATGATGGCTTCATGGCTTCCATGGACATGAAAACATGCATTGATGTC
AATGAATGTGACCTAAATTCAAATATCTGCATGTTTGGGGAATGTGAGAACACAAAGGGATCCTTCATTTGCCAC
TGTCAGCTGGGTTACTCAGTGAAGAAGGGGACCACAGGATGTACAGATGTGGATGAGTGTGAAATTGGTGCTCAT
AACTGCGACATGCATGCCCTCATGTCTGAATATCCCAGGAAGCTTCAAGTGTAGCTGCAGAGAAGGCTGGATTGGA
AACGGCATCAAGTGATTGATCTGGACGAATGTTCTAATGGAACCCACCAGTGTAGCATCAATGCTCAGTGTGTA
AATACCCCGGGCTCATAACCGCTGTGCCTGCTCCGAAGGTTTTACTGGTGATGGCTTTACCTGCTCAGATGTTGAT
GAGTGTGCAGAAAACATAAACCTCTGTGAGAACGGACAGTGCCTTAATGTCCCGGGTGCATATCGCTGCGAGTGT
GAGATGGGCTTCACTCCAGCCTCAGACAGCAGATCCTGCCAAGATATTGATGAATGCTCCTTCCAAAACATTTGT
GTCTCTGGAACATGTAATAACCTGCCTGGAATGTTTCATTGCATCTGCGATGATGGTTATGAATTGGACAGAACA
GGAGGGAACGTGTACAGATATTGATGAGTGTGCAGATCCTATAAACTGTGTCAATGGCCTATGTGTCAACACGCCT
GGTGCCTATGAGTGTAACTGCCACCCGATTTTTAGTTGAACCCAACTGGTGTGGGTTGTGTTGACAACCGTGTG
GGCAACTGCTACCTGAAGTTTTGGACCTCGAGGAGATGGGAGTCTGTCTTGCAACACCGAGATCGGGGTGGGCGTC
AGTGCCTCTTCATGCTGCTGCTCTCTGGGAAAGGCCTGGGGAAACCCCTGTGAGACATGCCCCCTGTCAATAGC
ACTGAATATTACACCCTGTGTCCCGAGGTGAAGGCTTCAGACCTAACCCCATCACAATCATTTTTAGAAGACATT
GACGAATGCCAGGAGTTACCAGGTCTCTGCCAGGGTGGAAAACCTGCATCAACACTTTTGGGAGCTTCCAGTGTGAG
TGCCCAACAAGGCTACTACCTCAGCGAGGATACCCGCATCTGTGAGGATATTGATGAGTGTGTTTGCACATCCTGGT
GTGTGTGGGCTTGGGACCTGCTATAACACCCTGGGAAATTACACCTGCATTTGCCACCTGAGTACATGCAGGTC
AATGGAGGCCACAACCTGCATGGACATGAGAAAAAGCTTTTGCTACCGAAGCTATAATGGAACCACTTGTGAGAAT
GAGTTGCCCTTTCAATGTGACAAAAAGGATGTGCTGCTGCACATATAATGTGGGCAAAGCTGGGAACAAACCTTGT
GAACCATGCCCCAACTCCAGGAACAGCTGACTTTAAACCATATGTGGAAATATTCCTGGATTACCTTTGACATT
CACACAGGAAAAGCTGTTGACATTGATGAATGTAAAGAGATTCCAGGCATTTGTGCAAATGGTGTGTGCATTAAAC
CAGATTGGCAGTTTCCGCTGTGAATGCCCTACAGGATTACAGTTACAATGACCTGCTGTTGGTTTGTGAAGATATA
GATGAGTGCAGCAATGGTGATAATCTCTGCCAGCGGAATGCAGACTGCATCAATAGTCTTGGTAGTTACCGCTGT
GAATGTGCCGCGGGTTTTCAAACTTTCACCCAATGGGGCCTGTGTAGATCGCAATGAATGTTTAGAAATTCCTAAC
GTTTGCAGTCAATGGCTTGTGTGTTGATCTGCAAGGAAGTTACCAGTGCATCTGCCACAATGGCTTTAAGGCTTCT
CAGGACCAGACCATGTGCATGGATGTTGATGAGTGCAGCGGCACCCATGTGGAAATGGAACCTGTAAAAACACC
GTTGGATCCTATAACTGTCTGTGCTACCCAGGGTTTGAACCTCACTCATAATAATGATTGCCTGGACATAGATGAG
TGCAGTTCCCTTTTTTGGTTCAGGTGTGCAGAAATGGACGTTGTTTTAATGAAATTGGTTCCTTTCAAGTGTCTATGT
AACGAAGGTTATGAACTTACCCCAAGATGGCAAAAACCTGTATAGACACTAATGAGTGTGTGCCCCCTTCCCGGCTCT
TGCTCTCCTGGTACCTGTGAGAAATTTGGAGGGATCCTTCAGATGCATCTGTCCCCCAGGGTATGAAGTAAAAAGC
GAGAACTGCATTGATATAAATGAATGTGATGAAGATCCCAACATTTGTCTTTTTGGTTCCTGTACTAATACTCCA
GGGGGCTTCCAGTGCCCTGTGCCCCCTGGCTTTGTACTATCTGATAATGGACGGAGATGCTTTGATACTCGCCAG
AGCTTCTGCTTCACAAATTTTGAAAATGGAAAGTGTCTGTACCCAAAGCTTTCAACACCACAAAAGCAAAAATGC
TGCTGTAGTAAGATGCCAGGAGAGGGCTGGGGGGACCCCTGTGAGCTGTGCCCCAAAGACGATGAAGTTGCATTT
CAGGATTTGTGTCCATATGGCCATGGAACCTGTCCCTAGTCTTCATGATACACGTGAAGATGTCAATGAGTGTCTT
GAGAGCCCAGGCATTTGTTCAAATGGTCAATGTATCAACACCGACGGATCTTTTCGCTGTGAATGTCCAATGGGC
TACAACCTTGACTACACTGGAGTACGCTGTGTGGATACTGATGAGTGTTCATCGGCAATCCGTGTGGAAATGGT
ACATGCACCAATGTTATTGGGAGTTTTGAATGCAATTGCAATGAAGGCTTTGAGCCAGGGCCCATGATGAATTGT
GAAGATATCAACGAATGTGCCCAGAACCCACTGCTGTGTGCTTTACGCTGCATGAACACTTTTGGGTCCCTATGAA
TGCACGTGCCCGATTGGCTATGCCCTCAGGGAAGATCAAAAGATGTGCAAAGATCTGGATGAATGTGCTGAAGGG
TTACACGACTGTGAATCTAGGGGCATGATGTGTAAGAATCTAATCGGCACCTTCATGTGCATCTGCCCTCCTGGA
ATGGCCCGAAGGCCCGATGGAGAAGGCTGTGTAGATGAAAATGAATGCAGGACCAAGCCAGGAATCTGTGAAAAT
GGACGTTGTGTTAACATTATTGGAAGCTATAGATGTGAGTGTAAATGAAGGATTCCAGTCAAGTCTTCAGGCAC
GAATGCCTTGACAATCGACAGGGTCTCTGCTTTGCAGAGGTACTGCAGACAATATGTCAAATGGCATCCAGTAGT

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FIGURE 665C

CGCAATCTCGTCACTAAGTCAGAATGCTGCTGTGATGGTGGGCGAGGCTGGGGCCACCAGTGCGAGCTTTGCCCA
CTTCCTGGAACCTGCCCAGTACAAAAAGATATGTCCTCATGGCCCAGGATATACAACCTGATGGAAGAGATATTGAT
GAATGTAAGGTAATGCCAAACCTCTGCACCAATGGTCAGTGCATCAATACCATGGGCTCATTCCGATGCTTCTGC
AAGGTTGGCTACACCACAGACATCAGTGAACCTCTTGTATAGACCTTGATGAATGCTCCCAGTCCCCGAAACCA
TGCAACTACATCTGCAAGAACACTGAGGGGAGTTATCAGTGTTTCATGTCCGAGGGGGTATGTCCTGCAAGAGGAT
GGAAAGACATGCAAAGACCTTGATGAATGTCAAACAAAGCAGCATAACTGCCAGTTCCTCTGTGTCAACACCCTG
GGGGGGTTTACCTGTAAATGTCCACCTGGTTTCACACAGCATCACACTGCTTGTATCGACAACAACGAATGTGGG
TCTCAACCTTTGCTTTGTGGAGGAAAGGGAATCTGTCAAAACACTCCAGGCAGTTTCAGCTGTGAATGCCAAAGA
GGGTTCTCTCTTGATGCCACCGGACTGAACTGTGAAGATGTTGATGAATGTGATGGGAACCACAGGTGCCAACAC
GGCTGCCAGAACATCCTGGGTGGCTACAGATGTGGCTGCCCCCAAGGCTACATCCAGCACTACCAGTGGAATCAG
TGTGTGCGATGAGAATGAATGCTCCAATCCCAATGCCTGTGGCTCTGCTTCCTGCTACAACACCCTGGGGAGTTAC
AAGTGCGCCTGCCCCCTCGGGGTTCTCCTTCGACCAGTTCTCCAGTGCCCTGCCACGACGTGAATGAGTGCTCGTCC
TCCAAGAACCCTGCAATTACGGCTGCTCTAACACGGAGGGGGGCTACCTCTGTGGCTGCCCCCCTGGGTATTAC
AGAGTGGGACAAGGCCACTGTGTCTCAGGAATGGGATTTAAACAAGGGGCAGTACCTGTCACTGGATACAGAGGTC
GATGAGGAAAAATGCTCTGTCCCCAGAAGCATGCTACGAGTGCAAAATCAACGGCTATCCTAAGAAAGACAGCAGG
CAGAAGAGAAGTATTTCATGAACCTGATCCCACTGCTGTTGAACAGATCAGCCTAGAGAGTGTGACATGGACAGC
CCCGTCAACATGAAGTTCAACCTCTCCACCTCGGCTCTAAGGAGCACATCCTGGAACCTAAGGCCCGCCATCCAG
CCCCCTCAACAACCACATCCGTTATGTTCATCTCTCAAGGGAACGATGACAGCGTCTTCCGCATCCACCAAAGGAAT
GGGCTCAGCTACTTGCACACGGCCAAGAAGAAGCTCATGCCCGGCACATACACACTGGAAATCACTAGCATCCCT
CTCTACAAGAAGAAGGAGCTTAAGAAACTGGAAGAGAGCAATGAGGATGACTACCTCCTAGGGGAGCTTGGGGAG
GCTCTCAGAATGAGGCTGCAGATTGAGCTCTATTAACCGTTCACAGACTTGGGCCCAGGCTCAAATCCTAGCACAC
GCCAGTCTGCAGAAGCATTTGAAAAGTCAAGGACTAATTTTAAAGAGGAAAAATAATAAATACTCTTGTTCCTTT
CCTCCCTGTCTTAGACTTTGAATGTTGACCCTCACAGGGAGGGATAATTTAGACTCTGGTATGGCCAAAGATTG
AGCTCAAAGGCAACCGTGGTTACTGTATTTTTATATAACTTCATTTTAAATATATTAAAGAAACCTAAATGT
TCAAGATATCAGCATATGGCACTAAATGCACAAAAATAATGTGAGCTTTTTTTTTTTTTTCTGTGTAGCAGTCTG
TAACACTTTGGGTATTTTGTCTATAGTTGCTAATTAATAAATAATAGATGTTTATTTATTTTAAATGCAGTAATAT
ATGGAGAAATGAACAACTATGTAAACAAAAAGGGAACTCACTTGTTTTTCTTTAGATTTATAAATTTGAGCTA
TTTTTTTTTAGAGGTGCTTTTTTAAAAATCCAATAGATACAAGAGATGTTTCCTTTGGTTTTCTGCCAGTCATCCAG
CTGATACACACCTGATCGATTTTAAAGAAAGCCACACAGAGCTGAATCGGGCAGTGCTAATCAATAATTTAAAG
ACATGAATGTCATTAGATCCTTTATAACGTAGATCGAAGCCAAAGCAGCTCATTGTGACAACATTTTCATATCAC
CAGACACACCAGGCAACAGAAGTTGAAGCACAACTGCTAGCAAAATACCTTGACTGCTTGTGAGACCATTAGC
ATTGCAGGCCAAACCGTACTGTATTTCTTCTCATAACCTCAAGGAACCATATGTGCTACCCACAACACCTCATT
CTTACCCAGGGTGCCTGCTGCTCCTCATGGTACTGTAGGCAGCTGAAGAACCAGCGTTCCCTTGAAAGGGAAACACC
TGGCATTCTGTGGTGTTCGCTGCTCTTAAATAATGGTGCATTTATTATGTTCAAGTTATTTTCAAGGATTGCCAT
ATGTGCAAAACAAATCATGCAATGCAGCCAAGGAATATATGTTGTTGTTGTTGTTTAAACCCATTTTTTTTTTTAG
AATTTTCATTAATACTGTAGTTATACACCATATGCCTCATTTTATCATAGCCTATTGTGTATGAAAGATGTTTGT
ACAATGAATTGATGTTTAGTTTGTCTTTAGTCATTTAAAAAGATATTGTACCAGGATGTGCTATTAAAGAGCACGTA
TCCATTATTCTTCTCAACCCAAGAACCTGTTTCCTGGACCAGTGACCAAACCTCATATGTGAAATGGCCAAAGCA
CATGCAGGCTCCTGTTGTTTCTCTCAACCTGTGCTGACCAAAGATTAGTAACCAGTTATACCCAGTATTTTGA
GGTTTTATTGTTTTTTTTTAATAACTAAAAAAAACCTCGTGCC

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FIGURE 666

MGRRRRLCLQLYFLWLGCVVWLWAQGTAGQPQPPPKPPRPQPPFQQVRSATAGSEGGFLAPEYREEGA AVASRVR
RRGQQDVLRGPNVCGSRFHSYCCPGWKTLPGGNQCIVPICRNSCGDGFCSRPNMCTCSSGQISSTCGSKSIQQCS
VRCMNGGTCADDHCQCQKGYIGTYCGQPVCENGCQNGGRCIAQPCACVYGFTGPQCERDYRTGPCFTQVNNQMCQ
GQLTGIVCTKTLCCATTGRAWGHPCEMCPAQPPCRRGFI PNIRTGACQDVDECQAIPGICQGGNCINTVGSFEC
RCPAGHKQSETTQKCEDIDEC SIIPGICETGECSNTVGSYFCVCPRGYVTSTDGSRCIDQRTGMCFSGLVNGRCA
QELPGRMTKMQCCCEPGRCWGIGTIPEACPVRGSE EYRRLCMDGLPMGGIPGSAGSRPGGTGGNGFAPSGNGNGY
GPGGTGFIPIPGGNGFSPGVGGAGVGAGGQGP IITGLTILNQ TIDICKHHANLCLNGRCIPTVSSYRCECNMGYK
QDANGDCIDVDECTSNPCTNGDCVNTPGSY YCKCHAGFQRTPTKQACIDIDECIQNGVLCKNGRCVNSDGSFQCI
CNAGFELTTDGKNCVDHDECTTTNMCLNGMCINEDGSFKCICKPGFVLAPNGRYCTDVDECQTPGICMNGHCINS
EGSFRDCDPPGLAVGMDGRVCVDTHMRSTCYGGIKKGVCVRPFP GAVTKSECCCANPDYGFGEPCQPCPAKNSAE
FHGLCSSGVGITVDGRDINECALDPDICANGICENLRGSYRCNCNSGYEPDASGRNCIDIDEC LVNRLLCDNGLC
RNTPGSYSCTCPPGYVFRTE TETCEDINECESNPCVNGACRNNLGSFNCECSPGSKLSSTGLICIDSLKGT CWLN
IQDSRCEVNINGATLKSECCATLGAAWGSPCERCELDTACPRGLARIKGVTCEDVNECEVFPGVCPNGRCVNSKG
SFHCECPEGLTLDGTGRVCLDIRMEQCYLKWDEDECIHPVP GKFRMDACCCAVGA AWGTECEECPKPGTKEYETL
CPRGAGFANRGDVL TGRPFYKDINECKAFPGMCTY GKC RNTIGSFKCRCNSGFALDMEERNCTDIDECRISPDLC
GSGICVNTPGSFECECFEGYESGFMMMKNCMDIDGCERNPLLCRGGTCVNT EGSFQDCDPLGHELSPSRED CVDI
NECSLSDNLCRNGKCVNMIGTYQCSCNPGYQATPDRQGCTDIDECMIMNGGCDTQCTNSEGSYECSCSEGYALMP
DGRSCADIDECENNPDICDGGQCTNIPGEYRCLCYDGF MASMDMKT CIDVNECDLNSNICMFGECE NTKGSFICH
CQLGYSVKKGTTGCTDVDECEIGA HNCDMHASCLNIPGSFKCSCREGWIGNGIKCIDLDECSNGTHQCSINAQCV
NTPGSYRCACSEGFTGDGFTCSDVDECAENINLCENGQCLNVP GAYRCECEMGFTPASDSRSCQDIDEC SFQNIC
VSGTCNNLPGMFHCICDDGYELDRTGGNCTDIDECADP INCVNLGVNTPGRYECNCPPDFQLNPTGVGCVDNRV
GNCYLKFGRGDGSLSCNTEIGVGVSRSSCCCSLGKAWGNPCETCPPVNSTEY YTLCPGGEGFRPNPITIILEDI
DECQELPGLCQGGNCINTFGSFQCECPQGY YLSEDTRICEDIDECFAHPGVCGPGTCYNTLGN YTCICPPEYMQV
NGGHNCMDMRKSFCYRSYNGTTCENELPFNVTKRMCCCTYNV GKAGNKPCEPCPTPGTADFKTICGNIPGFTFDI
HTGKAVDIDECKEIPGICANGVCINQIGSFRCECPTGFSYNDLLLVCEDIDEC SNGDNLCQRNADCINSPGSYRC
ECAAGFKLSPNGACVDRNECLEIPNVCSHGLCVDLQGSYQCICHNGFKASQDQTMCM DVDECERHPCGNGTCKNT
VGSYNCLCYPGFELTHNNDCLDIDECSSFFGQVCRNGRCFNEIGSFKCLC

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FIGURE 667A

GGGGAGGAAGAAAGGCGAAGGCAAGGCGAAGGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCG
GACGAGCAGATCCGGTATCTGGAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGC
AGGCTGGGGATATAGCCTCTCCTTCCGATGAAAAGAGAAAGGAAGAAATGGACTACAGCCACCAAACGTCCCTAGT
CCCATGTGGACAAGATAAATACATTTCCAAAATGAACCTCTCTTGCATCTGAAGACCTACAACCTTGTACTATGA
AGGCCAGAATTTACAGCTCCGGCACCGGGAGGAAGAAGACGAGTTCATTGTGGAGGGGCTCCTGAACATCTCCTG
GGCCTGCGCCGGCCCATTCGCCTGCAGATGCAGGATGACAACGAACGCATTTCGACCCCTCCATCCTCCTCCTC
CTGGCACTCTGGCTGTAACCTGGGGGCTCAGGGAACCACTCTGAAGCCCTGACTGTGCCCAAAGTTTCAGATCTC
AGAGGTGGATGCCCCGCCGGAGGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCTGCAGGA
GGACACCCACAGCTGATGCGCACACGCAGTGATGTTGGGGTGCCTCGCCGTGGCAATGTGAGGACGCCTAGTGA
CCAGCGGCGAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCATAAGACATCCGTGTTACACC
AGCCTATGGCTCTGTACCAACGTCCGCATCAACAGCACCATGACCACCCACAGGTCCTGAAGCTGCTGCTCAA
CAAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCTTGTACGTGGTCCATACGAGTGGTGAGAAACAGAAGCT
GAAGGCCACCGATTACCCGCTGATTGCCCGAATCCTCCAGGGCCCATGTGAGCAGATCTCCAAAGTGTTCTTAAT
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCAGTATATAAAGTTCGAGATGCCGGTACTTAAAG
CTTCATTGAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCAAGTACACCGTGCTCCGGCT
AATGATTGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATCTGAGCCATGAGAACGAGGGGATCTGG
GCACCCAGGAACCGCCATTGCCATAAGACCCCAAGGAAGCTAGGCACTTTCTTTCCATGGAAACATTTAGACA
CAAACCTCCCCAGCTCCGGCCAAGCCATCATTTTGCTACCTGGAGCTGGATGTAGAAGTCAGCAGACAGCTCCCTA
TCCCTGGACCCCTGCCCTCCTTTTTTCTGCTCACAAGGACTTTTGATTTTAGTTATAAGGAGGACCCAAAATGTG
TGTGTGTACATGTGTGTGCACACATGGTACGTGTCCATGTGCCTACCTGATACTTTCACATGTAATTAATTTCCA
GGCAACCAGCACAAAGAGCCGTGAGCTTGGCACATGTGCTGCTCGTGAGCAGGAAAATCAGAGGAGCCACTGATCT
GAGTGGTATTTAGGTTGAAGGAAAGATTTCTCCTCTCAAGTGCCAGGGAGCAGCCACACGTCTGTCTGTGTTTAG
AGAGGGAAGAGGGTTCTCCAGGTTACCATTTGGGTTGTTTATATGTTGGTAGAAATTCTCCCTGTATGCCTAGA
AGGATCAGTGAATGTAAGAGCCTTGGAATTAACAAAATAACAGCCACATAACCTTGCGGCAAGTCTGATGGAAA
GAAAAAGATAAACCATCCGTGGGGTAGATGCAATAAGCCACGTATTTTTTACACTGGAACGTTGATTGTTTTAA
ATGACAAAGACATATGTGATGTTCTATGTGGAACCTGTGAAGAGTGGATTCTGCCTCCATCTCTGCCTCCATGG
CTACCTTTAGGAGACAGAGAAGATCCTGTGTGTTTCTCTGTACCCAGCTGACAGCCTGTCTCTATGGCGCTTCCT
TGAGTGGAAAGGAAATGTCTCAAGAAACAAAGATCTCGCTGGTGCGTACACAGTGTGACAGCTAGTGTGGCCAG
GGCCTGGTGGCTGGTGGCCAGGAAGTTTCAGGTTGAAGGGAAATGTGAGGCTACCTGCAGATATGACAGGTGC
CTTGAACGCAGCCCATCTTCATGTCAATCAAGGTCTTCTGCACTTGAAGCTGGGGCGATGTTTGCAGTCAAGAC
CATTCTTTCCAACCTCTGGGTTCTTGCAAGTTGCCCTCACCTTGTGTGTGGAGATGCATTCCAAGAATGAAGCCT
CATCTTGCTACTGAGTGTGGGGTTTCAGGGAAGCTCTTTAGGCCACCTGGTGAAGGTGCATGGGGAGGATGGAGCT
TCTCCTCAGCTCCTCTGAGCAGCCACCTATGTGATCTTTAAATCCAACCCCAATGGGAGAAAAGGGCAAGAACAG
TCTGTGCCCTGGGACTCCTATCAGGAAGCTTGACAGGCAGCTGGGCATCAGTGCAGCTGATATCGTTTGAGGAGG
GAGACAGATGCTTGGACCTGGGTGCCTGGCTATGGAGATTGACCAAGCAAGATCAGGAGCTCCTGATAGCAGGCG
TCTTTGAGCCTAGCTGGGGTAGAGGCACTGCCATCTCTTCTCCACCTTCTCTCCACAGAATGTTTGCAGAGCTG
GGCAGTTGAGGAAAGGACAGCCCCCTGGTTGGTGCTCCAAAGGAAGGTGGACTTTTTTGGTGGAGACGTTTCTGC
CCTGGGACACCTCCTGCCCCCGATTTCATACCTATGGCTTCTTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC
TGCAGAAAAGATGGCATGCGGCCCTGGCATTTCGCCAAGGGTTTTATAGCAAGTCTCCTTCCTCCATAGGGACAG
CAGCACCAGCCCTGTGGGGCATGGAGTGAAGCCAGAGGGCTTCTGCAAGCTGCACAGAACTGGGGTAAGAAG
ACAAAGAGTAGCCACCGGGAGAGGCTTCCCTTTGTTACAGCTGGGAAAGAAGAGTTCTGTGAATGCAACACCTCC
TGAGTTTTCGAATTGAGAAAATGATTTGGAGAAGTCTCTTCTGGTAATTTTTTGAATGTTTCAGGGCCTTA
GTTGGCCCCAGTAATTTCTCCTTGGAGGACTTGGGAGAAGAATTTCCACAAAGCAAACCTACTAACCCTAGCTCTT
ACTGGACAGCGATTTCTGGCTTATAAGAGTTCTCTTTGATTGCACTAGCACTACGATAGTGTAGATGGGGAAA
TACTGCAACATGTCCAGTTGGCCAGATCACTTTCCAAGGGAGCGATACTAAGGCAGACTCAGCTTTTTAAAGATG
GGAGGTCAGGAGGTGGAAGTGAGAGGAGATCCCATCTCACACAACACACTTCCACGTAATGCAGACCACACTTTT
CCATTTTGCTCTGCCCTCTTGAGAGGTCATTTCTACGTCTTAAGAACCTGATCAGAAATTTTGAAGGGTCTT
TGAAATAGCAGCAGTTGAAACAGAGACACTTTGCCACAGTGTGGAGCAGATTTTCTCACTGGTATCACATGGTCT

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FIGURE 667B

TGCAGTTTTGAACTCTTCGACCGATTTGTGGGAGTTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG
ACAAAAGACCAGTTTATAGGGTTGGGTTTTTTTTTCCAACCTGTGAAAAGCAGTTTAGCTGCATCTGTCTCCCCAC
CACCCCCACCCCGGGAGGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT
GGTGGGAATTAAGCACAAAGGTCACATTCTCTGTGATCACATGAGAGGGAAGGTGATGACTTAAATGGCAGGGGGTG
GGGATTATCTTGGGGAGAGGCTGAAAAGCACAAAAGATAGTCTTCCCTGTACGTATTGGTGAAGAACGTGCACAA
GGCTGGATGGACTTCAACTTGGAGTTGAGTTGAGGCAAGAGGATTTCTGGATATTAGTCACCCATCTGCAAGAAA
AATGCTGAGGCCTCGGGTCAAGATTTTGATCTGAGACATGCTGATGCTTCAAGGAGAAATATTTTACAATCCTC
TCTTCCCTCACCAGAAGAGAACAGTACTCTCTCCTAGAAACCTCTAGGTAAACACATTTTATCCTAATATCGGTA
GCATATAATGCCCCCCCCAAAATATCTGTTTTCCATGCAAAAAAGTCTCAACAAGAAGTCTGTGGAGTTGAGTGG
TTACTTCAAAGTGTGAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTCTTAAGAAAAGGGAATTCT
CTTTAAAGAAACCACCACCAACAACAAAACAACCAAAAACCATGTTTTATGTCAAAGCTCTGTAGCACAGAGAAT
GTGGTGTACACAGATACATCGCCGAGAGAGGTTTCTTTCTTTCTTTTTTTTTTTTTTTTGGAGACAGAGTCTGGTTCTG
TTTCCCAGGCTGGAGTGCAGTGGTGGGATCTCAGCTCACTGCAACATCCGCCCTCTGGGGTTCAAGTGATTCTCCT
GTCTCAGCCTCCCAAGTAGCTGGAATTACAGGGACCCGCCACCACGCCCGGCTAATTTTTTTGTGTGGTTTTAGT
AGAGGTGGGGTTTCACCATCTTGGCCAGGCTGGTCTTGAACCTCTGACCTCGTGATCCACCCGCCTAGGCCTCCC
AAAGTGTTGGGATTACAGGCGTGAGCCACTGTGCCCAGCCAAAAGAGAAATTTCTACATGAACAAGGCAATTTCA
GTGTCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT
AGCAGCACACATTTTACGTTTCCACTTAAATCGTTTTGCACAAAAGTCTTGCTTCGCTCAGATGAGATGAGATAT
GATTTCTAGAGATGTAAAAATAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAATAGAAAGCTCTGCCCTA
TCACAAGGGGGGTGTTGAAGCGCCCCCTTGTGTTTTAACTGTATTTAACTGAGCACAAAGATGCACAAGCTGTGGTG
GGAAACCTCAGTTTACCTTTGGAGTCTTCCCTGCAGATCGCAGACCTGTTTCCAGGCTGATGTTTCTGGTGTGT
AATTGCTAGCGTTTCTGAAGGGTTTTCCCAATTGTTTTAGCCTTGTGAAGTATTCTTAATTATAACTTGCCTTTC
AGCGATGGTACATGACTTGATTCAACGTTTGGTCTGAACCTACACACTGATGCGTTTACTCATCTAACATAATC
TGACAGGGCCTCAGCAAGGGAGCCATACATTTTTGTAAACATTTTGATATGTTTTAATGCATCTGACTTAGATCTT
ACTGAAATAAAGCACTTTTCAAAGAG

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FIGURE 668

MDYSHQTSLVPCGQDKYISKNEILLHLKTYNLYYEGQNLQLRHREEEDEFIVEGLLNISWGLRRPIRLQMDDNE
RIRPPSSSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSSTD SRGLKPLQEDTPQLMRTRSDVGVR
RRGNVRTPSDQRRIRRRHRSINGHFYNHKTSVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAEEFALYV
VHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMPVLKSF IQKLQEEEDREVKK
LMRKYTVLRLMIRQRLEEIAETPATI

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FIGURE 669

CCCGCTGGCCCAATGGCAGCGTCCTACAGTGTAGCCTCCGCCTCCCGATTGACTGGCCTGCTTGGCAAGGCAAGT
AGCGGCGGCGCTTCAAGATGCGCTGCCTGACCACGCCTATGCTGCTGCGGGCCCTGGCCCAGGCTGCACGTGCAG
GACCTCCTGGTGGCCGGAGCCTCCACAGCAGTGCAGTGGCAGCCACCTACAAGTATGTGAACATGCAGGATCCCG
AGATGGACATGAAGTCAGTGA CTGACCGGGCAGCCCGCACCCCTGCTGTGGACTGAGCTCTTCCGAGGCCTGGGCA
TGACCCCTGAGCTACCTGTTCCGGGAACCGGCCACCATCAACTACCCGTTTCGAGAAGGGCCCGCTGAGCCCTCGCT
TCCGTGGGGAGCATGCGCTGCGCCGGTACCCATCCGGGGAGGAGCGTTGCATTGCCTGCAAGCTCTGCGAGGCCA
TCTGCCCCGCCCAGGCCATCACCATCGAGGCTGAGCCAAGAGCTGATGGCAGCCGCCGGACCACCCGCTATGACA
TCGACATGACCAAGTGCATCTACTGCGGCTTCTGCCAGGAGGCCTGTCCCGTGGATGCCATCGTCGAGGGCCCCA
ACTTTGAGTTCTCCACGGAGACCCATGAGGAGCTGCTGTACAACAAGGAGAAGTTGCTCAACAACGGGGACAAGT
GGGAGGCCGAGATCGCCGCCAACATCCAGGCTGACTACTTGTATCGGTGACGCCCCACCGGCCTGCAGCCCTGC
TGCCCAATAAAACCACTCCGACCCACGG

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FIGURE 670

MRCLTTPMLLRALAQAARAGPPGGRSLHSSAVAATYKYVNMQDPEMDMKSVIDRAARTLLWTELFRLGMLSYL
FREPATINYPFEKGPLSPRFRGEHALRRYPSGEERCIACKLCEAICPAQAITIEAEPRADGSRRTRYDIDMTKC
IYCGFCQEACPVDAIVEGPNFEFSTETHEELLYNKEKLLNNGDKWEAEIAANIQADYLYR

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FIGURE 671A

CTCCTTCCATAAGGGTCTGGTCCCTTCATCCCTCCCGCTTCACCAGACCCCCTCACCCCTGGGAGCCGCCACCTCCC
TTTCCCCAAGACCAGATGTCGCGCGGCCGGACACAGCCAGCACGGAGAGTCGATGCCGGCGTCTGAGCTGCGCAG
TGGGGTCTTCCCGCTGCCCAGCAGCCTACAGGCGCGGTGCACTCTGGGGGAACATGGCCGCTTCCGGTCTCCCTC
CCGGGCCGGCGCTGGCCTGACTGCGGCCCCGGTCCGTAGCACTCCGCCCTCCGCTTCTCCCGCCCTGTAGCCGCG
AAGACTGCTTCAGCCTTTCCCTGTGCTGCCCCCTGCCGCGCGATGAGACGAGCTCGAGCTGCGAGAGTCTTGGCT
CCCAGCCGGCGCGGCTCGGCCGCCAGCGTGGACTCCTTGTCAGTGCCTCCACTTCTCATTGAGAGAAATTCAG
TGCATACAAAATCAGCTTCTGTTGTATCATCAGATTCCATTCAACTTCTGCCGACAACCTTTCTCCTGATTGA
GGGTCTGAGGGAGTCTAACAAGTTAGCAGAAATGGAAGAACCACCCTTGCTTCCAGGAGAAAATATTAAAGACA
TGGCCAAAAGATGTAACCTTATATATGTCCATTCACTGGCGCTGTACGAGGAACCTGACTGTCACGAATTATAGGT
TATATTTCAAAGCATGGAACGGGATCCCCATTTGTTTTAGATGCTTCCCTTGGTGTGATAAATAGAGTAGAAA
AAATTGGTGGTGCTTCTAGTCGAGGTGAAAATTCTTATGGACTAGAACTGTGTGTAAGGATATTAGGAATTTAC
GATTTGCTCATAAACCTGAGGGGCGGACAAGAAGATCCATATTTGAGAATCTAATGAAATATGCATTTCTGTCT
CTAATAACCTGCCTCTTTTTGCTTTTGAATACAAAAGATATCCCTGAAAATGGGTGGAAGCTATATGACCCTC
TTTTAGAGTATAGAAGGCAGGGAATTCCAAATGAAAAGCTGGAGAATAACAAAGATAAATGAACGATATGAACTTT
GTGATACATACCCTGCCCTCCTGGTTGTGCCAGCAAATATTCCTGATGAAGAATTAAAGAGAGTGGCATCCTTCA
GATCAAGAGGCCGTATCCCAGTTTTATCATGGATTTCATCCTGAAAGTCAAGCCACAATCACTCGGTGTAGCCAGC
CCATGGTTGGAGTGAGTGGAAGCGAAGCAAAGAAGATGAAAAATACCTTCAAGCTATCATGGATTCCAATGCCC
AGTCTCACAAAATCTTTATATTTGATGCCCGGCCAAGTGTTAATGCTGTTGCCAACAAGGCAAAGGGTGGAGGTT
ATGAAAGTGAAGATGCCTATCAAATGCTGAACTAGTTTTCTTGGATATCCACAATATTATGTTATGAGAGAAT
CATTACGAAAACCTTAAGGAGATTGTGTACCCCAACATTGAGGAACTCACTGGTTGTCTAACTTGAATCTACTC
ATTGGCTAGAACATATTAAGCTTATTCTTGCAGGGGCTCTTAGGATTGCTGACAAGGTAGAGTCAGGGAAGACGT
CTGTGGTAGTGCACTTGCACTGATGGTTGGGATCGCACAGCTCAGCTCACTTCCCTTGGCATGCTCATGTTGGATG
GATACTATCGAACCATCCGAGGATTTGAAGTCCTTGTGGAGAAAGAATGGCTAAGTTTTGGACATCGATTTCAAC
TAAGAGTTGGCCATGGAGATAAGAACCATGCAGATGCAGACAGATCGCCTGTTTTCTTCAATTTATTGACTGTG
TCTGGCAGATGACAAGACAGTTTTCTACCGCATTTGAATTCAATGAGTATTTTCTCATTACCATTTTGGACCACC
TATACAGCTGCTTATTCGGAACATTCTCTGTAAATAGTGAACAACAGAGAGGAAAAGAGAATCTTCTAAAAGGA
CTGTGTCAGTGTTGCTTACATAAACAGCCAGCTGGAAGACTTCACTAATCCTCTCTATGGGAGCTATTCCAATC
ATGTCTTTATCCAGTAGCCAGCATGCGCCACCTAGAGCTCTGGGTGGGATATTACATAAGGTGGAATCCACGGA
TGAAACCACAGGAACCTATTACAAACAGATACAAAGAACTTCTTGCTAAACGAGCAGAGCTTCAGAAAAAAGTAG
AGGAACTACAGAGAGAGATTTCTAACCGATCAACCTCATCTCAGAGAGAGCCAGCTCTCCTGCACAGTGTTCA
CTCCTGTCCAAACTGTTGTATAAAGGACTGTAAGATCAGGGGCATCATTGCTATACACTCTTGATTACACTGGCA
GCTCTATGAGTAGAAAGTCTTCGGAATTTAGAACCCTATGAGAGAAAGTTCAGTCACTTTATTTATTTTAA
TCTCTCTAGGATGAGTTTAGAACTGTAGCAGTGCGAGTGGCTTAAGTGAAGTAACTCCATATGTAATTACATGAT
TATGATACTAATCTTTTAAGTATCCAAAGAATATTAATAACTTCAATCCTGGATTACAGTGGGAACAAGTTTC
TATTAAGGCAAATGCTGTTACAAATTTTTGGCATCTGGTAATATTAACCATTTTTAGAAATACACTCTGTGC
TCACTGTGCAGAGGAACATCAGTTTTCAAACCAACACTGAAATCTGTGGCATCACATATATTGGGCCTTGATGT
CATGACAGATCAAAATCATTGATATCCCTTTCTCCATTCTAGGTTTTCTTTTTTTCAGTAACTGATTTACCTT
GATCACTTTTCAACTTCCATATTCTTCATATAGTAAAAGGCAAAGTATTGAAGATACTACGGTGTGGTAGTAGTT
GAAAATTATTGCCGTCATTATTTACATACTTAAGACATATTAGCAAGTTGATCCAAAATGGGAGGCCTTATAGAT
GTGCTTGGGGGAAAATGAAGGGGAGAAAGTAGCCATACAGGAGTTCAAAGAATTCCATGCCCTTCAGATTAGCCC
AATTACCAGAAACATCATGAAAGATATTTTAAAACTAATTATTTACTACAGTGTATTTCACTTGTCTTGTGTGT
CTGAACACACAGAAGCTAATTAGCAAGTTTTTAAGAAGTATTTAAAAATCTTACTAGGATTGACATTTTTCTGA
ATTCTGTATAAATAGCTTATAGTGAGAAGTACTGTGCTCAAATTTTACATTTTTTCTTTGCAAATCTGTAAAT
TTCCTCAACGATTAAGTCTACCAAAGAACACACTGCATGTAAAAGATGTATTACAATCTCAAAGCCAGTAAAAG
AAATCTTGCTTCACTGTTACCTGCTACAAGTAAGAGTTTGGTGTGGTAGAAACATTTGACTCTGATGTCTATT
TTATTCTACATAAGAGCCATATGTAATGTACTGTAAACAAAGGAGCTTCTGTCCCTTGGTCTTTTAAATTAAAG
AAATTCCAACTGACTTTTAACTTTGTCTTGTCCAAAGTTGCCATTTCTTTTTTTTCCCAGAAATATTGGAA
ATTATTGGAGGAATATGCACCCAGATGAAAATGTTTCAGTTTGTACCCATTTTCTTAAACCAACACCCAAATCA

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FIGURE 671B

AACAATTAAATATACAGTGTTTTTCCACTCACTAATTCCTATAACAGAGAGTCTGAACCTTAGCCTCCCTCTTG
GTCTTGCACTGAGGAAATTTCTATTAGTATATCCAATTTAGCAAAATTGGTACCAAAATGATTTCTTTGGTAATT
GTGTGAAATATAAGCTTTTTTAACAGGGCATTTAAGTGGCTAGCAAATCAGTAATTAATAAATTAAGCTTTCTACTC
CAAGTATTTTCAAAATGCATCTGCCATTTTCCTCATTTTAAACCTTGATTATCTTGGCCTGATACCACATAAAAGA
ATGTAGAATGGCTGAAGAGATCAAGAATTTAAAGCTTCTAGTCTTAACATACTTGCATCCACTTCAAATTCAAAT
CAAAAGCCAGGGAAATCTAAGTGCAACCCTACCACTTCTCTGCTGAGAACCTTCCAGTGGTTCCCTCACCTTCT
GCAGAAGTCTCCAATATGGAGTACATGCACTTGGGCATTTAATATATACCACTGGTGTGTGTGGGAGGGAGGGAG
GAGGAATACTAGCCCTTTTTATATATTTACACAAGCAAACTTTTAAATATTTGAATTGACAGTTACATGTTTCA
TAACTTCGTATGTCTATTGGTTGTGCAGGTGTAATTTTTTCCCTTTTTGATTAGGGTTACAAAATTTAGAGACCA
GTATGATTAAGTTGAAGCTCCTTAGCCTCCTTCGACCTAGTCTCTGCATACCTCAACTTTTACGTACCAATGCTA
CTCTGCTGTTTACAATTGCCTCATGTAATCTGCAGATTCCCTGCCTCCCCACTTTGGTTCAGTCTGTCTTGTGCAC
CTGGAACAACCTGTTCTCCCTTGTGACTAATTCCCTATTTTCTAGAGTTTAGGCATCATCTCTTCCCTTTGGGAAGTT
ATCTGATTCACGACTGCCTTCTCTGACATCCCCACCTTCCTCTGTGCCCCATAGCACTGTGTATACCGCTACTA
CCACTGCAATTCACATTATATTGGAATGAACAATTCACATGTCTACCACAAGTCTGTAAACATAACCTTATTGGA
AATGAATTGCAATAAAGCTCTGTTACAACGT

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FIGURE 672

METSSSCESLGSQPAAARPPSVDSLSSASTSHSENSVHTKSASVSSDSISTSadNFSPDLRLVRESNKLAEMEE
PPLLPGENIKDMAKDVTYICPFTGAVRGTLTVTNRYLYFKSMERDPPFVLDA SLGVINRVEKIGGASSRGENSYG
LETVC KDIRNLRFAHKPEGRTRRSIFENLMKYAFPVSNNLPLFAFEYKEVFPENGWKLYDPLLEYRRQGIPNESW
RITKINERYELCDTYPALLVVPANIPDEELKRVASFRRGRIPVLSWIHPESQATITRCSQPMVGVSGKRSKEDE
KYLQAIMDSNAQSHKIFIFDARPSVNAVANKAKGGGYESEDAYQNAELVFLDIHNIHVMRESLRKLKEIVYPNIE
ETHWLSNLESTHWLEHIKLILAGALRIADKVESGKTSVVVHCSDGWDRTAQLTSLAMLMLDGYIRTIRGFEVLVE
KEWLSFGHRFQLRVGHGDKNHADADRSPVFLQFIDCVWQMTROFPTAFEFNEYFLITILDHLYSCLFGTFLCNSE
QQRGKENLPKRTVSLWSYINSQLEDFTNPLYGSYSNHVLYPVASMRHLELWVGYYIRWNPRMKPQEPIHNRYKEL
LAKRAELQKKVEELQREISNRSTSSSERASSPAQCVTPVQTVV

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FIGURE 673A

ACGCGGCGCGGAGGCTGGCCCCGGACGCGCCCGGAGCCCAGGGGAAGGAGGGAGGAGGGGAGGGTTCGCGGCCGGCC
GCC**ATG**GGGGCCGGGGGCCCCGTGGCCGCCGCCGCCGCCGCTCGCCCGATGTCGCCGCCACCGCCACCGCCACCCGTG
CGGGCGCTGCCCCCTGCTGCTGCTGCTAGCGGGGGCCGGGGGCTGCAGCCCCCCTTGCTGGACGGAAGCCCGTGT
GCAAATGGAGGTCGTTGCACCCAGCTGCCCTCCCGGGAGGCTGCCTGCCTGTGCCCGCCTGGCTGGGTGGGTGAG
CGGTGTGAGCTGGAGGACCCCTGTCACTCAGGCCCCCTGTGCTGGCCGTGGTGTCTGCCAGAGTTCAGTGGTGGCT
GGCACCGCCCGATTCTCATGCCGGTGCCCCCGTGGCTTCCGAGGCCCTGACTGCTCCCTGCCAGATCCCTGCCTC
AGCAGCCCTTGTGCCCACGGTGCCCGCTGCTCAGTGGGGCCCGATGGACGCTTCCTCTGCTCCTGCCACCTGGC
TACCAGGGCCGAGCTGCCGAAGCGACGTGGATGAGTGCCGGGTGGGTGAGCCCTGCCGCCATGGTGGCACCTGC
CTCAACACACCTGGCTCCTTCCGCTGCCAGTGTCCAGCTGGCTACACAGGGCCACTATGTGAGAACCCCGCGGTG
CCCTGTGCGCCCTCACCATGCCGTAACGGGGGCACCTGCAGGCAGAGTGGCGACCTCACTTACGACTGTGCCTGT
CTTCCTGGGTTTGAGGGTCAGAATTGTGAAGTGAACGTGGACGACTGTCCAGGACACCGATGTCTCAATGGGGGG
ACATGCGTGGATGGCGTCAACACCTATAACTGCCAGTGCCCTCCTGAGTGGACAGGCCAGTTCTGCACGGAGGAC
GTGGATGAGTGTGAGCTGCAGCCCAACGCCTGCCACAATGGGGGTACCTGCTTCAACACGCTGGGTGGCCACAGC
TGCGTGTGTGTCATGGCTGGACAGGTGAGAGCTGCAGTCAGAATATCGATGACTGTGCCACAGCCGTGTGCTTC
CATGGGGCCACCTGCCATGACCGCGTGGCTTCTTTCTACTGTGCTGCCCCATGGGCAAGACTGGCCTCCTGTGT
CACCTGGATGACGCCTGTGTGAGCAACCCCTGCCACGAGGATGCTATCTGTGACACAAATCCGGTGAACGGCCGG
GCCATTTGCACCTGTCTCCCGGCTTACGGGTGGGGCATGTGACCAGGATGTGGACGAGTGTCTATCGGCGCC
AACCCTGCGAGCACTTGGGCAGGTGCGTGAACACGCAGGGCTCCTTCTGTGCCAGTGCAGTGTGGCTACACT
GGACCTCGCTGTGAGACCGATGTCAACGAGTGTCTGTGCGGGGCCCTGCCGAAACCAGGCCACGTGCCTCGACCGC
ATAGGCCAGTTCACCTGTATCTGTATGGCAGGCTTCACAGGAACCTATTGCGAGGTGGACATTGACGAGTGTGAG
AGTAGCCCCCTGTGTCAACGGTGGGTCTGCAAGGACCGAGTCAATGGCTTCAGCTGCACCTGCCCCTCGGGCTTC
AGCGGCTCCACGTGTGAGCTGGACGTGGACGAATGCGCCAGCACGCCCTGCAGGAATGGCGCCAAATGCGTGGAC
CAGCCCCGATGGCTACGAGTGGCGCTGTGCGGAGGGCTTTGAGGGCACGCTGTGTGATCGCAACGTGGACGACTGC
TCCCCTGACCCATGCCACCATGGTGGCTGCGTGGATGGCATCGCCAGCTTCTCATGTGCTGTGCTCCTGGCTAC
ACGGGCACACGCTGCGAGAGCCAGGTGGACGAATGCCGCAGCCAGCCCTGCCGCCATGGCGGCAAAATGCCCTAGAC
CTGGTGGACAAGTACCTCTGCCGCTGCCCTTCTGGGACCACAGGTGTGAACTGCGAAGTGAACATTGACGACTGT
GCCAGCAACCCCTGCACCTTTGGAGTCTGCCGTGATGGCATCAACCGCTACGACTGTGTCTGCCAACCTGGCTTC
ACAGGGCCCTTTGTAACTGGAGATCAATGAGTGTGCTTCCAGCCCATGCGGCGAGGGAGGTTCTGTGTGGAT
GGGGAAAAATGGCTTCCGCTGCCTCTGCCCGCCTGGCTCCTTGCCCCACTCTGCCTCCCCCGAGCCATCCCTGT
GCCCATGAGCCCTGCAGTCACGGCATCTGCTATGATGCACCTGGCGGGTTCGCTGTGTGTGTGAGCCTGGCTGG
AGTGGCCCCCGCTGCAGCCAGAGCCTGGCCCCGAGACGCTGTGAGTCCAGCCGTGCAGGGCCGGTGGGACATGC
AGCAGCGATGGAATGGGTTTCCACTGCACCTGCCCCGCTGGTGTCCAGGGACGTGAGTGTGAACTCCTCTCCCC
TGACCCCCGAACCCCTGTGAGCATGGGGGCCGCTGCGAGTCTGCCCTGGCCAGCTGCCTGTCTGCTCCTGCCCC
CAGGGCTGGCAAGGCCACGATGCCAGCAGGATGTGGACGAGTGTGCTGGCCCCGCACCCTGTGGCCCTCATGGT
ATCTGCACCAACCTGGCAGGGAGTTTCACTGCACCTGCCATGGAGGGTACACTGGCCCTTCTGTGATCAGGAC
ATCAATGACTGTGACCCCAACCCATGCCTGAACGGTGGCTCGTGCCAAGACGGCGTGGGCTCCTTTTCTGTCTCC
TGCTTCCCTGGTTTCGCCGGCCCCACGATGCGCCCGGATGTGGATGAGTGCCTGAGCAACCCCTGCGGCCCCGGG
ACCTGTACCGACCACGTGGCCTCCTTACCTGCACCTGCCCCCGGGGTACGGAGGCTTCCACTGCGAACAGGAC
CTGCCCCGACTGCAGCCCCAGCTCCTGCTTCAATGGCGGGACCTGTGTGGACGGCGTGAACCTCGTTTCACTGTGCTG
TGCCGTCCCCGGCTACACAGGAGCCCACTGCCAACATGAGGCAGACCCCTGCCTCTCGCGGCCCTGCCTACACGGG
GGCGTCTGCAGCGCCGCCACCCTGGCTTCCGCTGCACCTGCCTCGAGAGCTTACGGGGCCCGCAGTGCCAGACG
CTGGTGGATTGGTGCAGCCGCCAGCCTTGTCAAAACGGGGGTGCTGCGTCCAGACTGGGGCCTATTGCCCTTTGT
CCCCCTGGATGGAGCGGACGCCTCTGTGACATCCGAAGCTTGCCTGCAGGGAGGCCGAGCCAGATCGGGGTG
CGGCTGGAGCAGCTGTGTGAGCGGGTGGGCAGTGTGTGGATGAAGACAGCTCCCACTACTGCGTGTGCCAGAG
GGCCGTACTGGTAGCCACTGTGAGCAGGAGGTGGACCCCTGCTTGGCCCAGCCCTGCCAGCATGGGGGGACCTGC
CGTGGCTATATGGGGGGCTACATGTGTGAGTGTCTTCTGGCTACAATGGTGATAACTGTGAGGACGACGTGGAC
GAGTGTGCTTCCAGCCCTGCCAGCACGGGGTTTATGCATTGACCTCGTGGCCCGCTATCTCTGCTCCTGTCCC
CCAGGAACGCTGGGGGTGCTCTGCGAGATTAATGAGGATGACTGCGGCCAGGCCACCGCTGGACTCAGGGCCC

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FIGURE 673B

CGGTGCCTACACAATGGCACCTGCGTGGACCTGGTGGGTGGTTTCCGCTGCACCTGTCCCCCAGGATACACTGGT
TTGCGCTGCGAGGCAGACATCAATGAGTGTGCTCAGGTGCCTGCCACGCGGCACACACCCGGGACTGCCTGCAG
GACCCAGGCGGAGGTTTCCGTTGCCCTTTGTATGCTGGCTTCTCAGGTCCCTCGCTGTGAGACTGTCTGTCTCCC
TGCGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGCCGTCCTAGCCCGGGTCCCTGGGGGTGGGCTGACCTTACC
TGTAAGTGTGCCAGCCGTTTGGGGTCCGCGTTGCGAGCGGGTGGCGCGCTCCTGCCGGGAGCTGCAGTGCCCCG
GTGGGCGTCCCATGCCAGCAGACGCCCCGCGGGCCGCGCTGCGCCTGCCCCCAGGGTTGTGCGGACCCCTCCTGC
CGCAGCTTCCCGGGGTGCGCGCCGGGGGCCAGCAACGCCAGCTGCGCGGCCGCCCCCTGTCTCCACGGGGGCTCC
TGCCGCCCCGCGCCGCTCGCGCCCTTCTTCCGCTGCGCTTGGCGCGCAGGGCTGGACCGGGCCGCGCTGCGAGGCG
CCCGCCGCGGCACCCGAGGTCTCGGAGGAGCCGCGGTGCCGCGCGCCGCTGCCAGGCCAAGCGCGGGGACCAG
CGCTGCGACCGCGAGTGCAACAGCCAGGCTGCGGCTGGGACGGCGGGGACTGTCTGCTGAGCGTGGGCGACCCC
TGGCGGCAATGCGAGGCGCTGCAGTGTGGCGCCTCTTCAACAACAGCCGCTGCGACCCCGCCTGCAGCTCGCCC
GCCTGCCTCTACGACAACCTCGACTGCCACGCGCGTGGCCGCGAGCGCACTTGCAACCCGGTGTACGAGAAGTAC
TGCGCCGACCACTTTGCCGACGGCGCTGCGACAGGGCTGCAACACGGAGGAGTGGCGTGGGATGGGCTGGAT
TGTGCCAGCGAGGTGCCGGCCCTGCTGGCCCGCGGCGTGCTGGTGCTCACAGTGTGCTGCGCGCGGAGGAGCTA
CTGCGTTCCAGCGCCGACTTTCTGCAGCGGCTCAGCGCCATCCTGCGCACCTCGCTGCGCTTCCGCTGGACGCG
CACGGCCAGGCCATGGTCTTCCCTTACCACCGGCTAGTCTGGCTCCGAACCCCGGGCCCGTGGGAGCTGGCC
CCCGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGGCTCTGCCTGCAGTGCCTGAGAATGATCAC
TGCTTCCCCGATGCCAGAGCGCCGCTGACTACCTGGGAGCGTTGTGAGCGGTGGAGCGCCTGGACTTCCCGTAC
CCACTGCGGGACGTGCGGGGGGAGCCGCTGGAGCCTCCAGAACCCAGCGTCCCGCTGCTGCCACTGCTAGTGGCG
GGCGCTGTCTTGCTGCTGGTCACTTCTGCTCCTGGGTGTGATGGTGGCCCGCGCAAGCGCGAGCACAGCACCCCTC
TGTTTCCCTGAGGGCTTCTCACTGCACAAGGACGTGGCCTCTGGTACACAAGGGCCGGCGGGAACCCGTGGGCCAG
GACGCGCTGGGCATGAAGAACATGGCCAAGGGTGAGAGCCTGATGGGGGAGGTGGCCACAGACTGGATGGACACA
GAGTGCCCAGAGGCCAAGCGGCTAAAGGTAGAGGAGCCAGGCATGGGGGCTGAGGAGGCTGTGGATTGCCGTCAG
TGGACTCAACACCATCTGGTTGCTGCTGACATCCGCGTGGCACCAGCCATGGCACTGACACCACCACAGGGCGAC
GCAGATGCTGATGGCATGGATGTCAATGTGCGTGGCCAGATGGCTTACCCCGCTAATGCTGGCTTCCCTTCTGT
GGGGGGGCTCTGGAGCCAATGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCATCTCCGACCTG
ATCTGCCAGGGGGCTCAGCTTGGGGCACGGACTGACCGTACTGGCGAGACTGCTTTGCACCTGGCTGCCCGTTAT
GCCCGTGTGATGCAGCCAAGCGGCTGCTGGATGCTGGGGCAGACACCAATGCCCAGGACCACTCAGGCCGCACT
CCCCTGCACACAGCTGTACAGCCGATGCCCAGGGTGTCTTCCAGATTCTCATCCGAAACCGCTCTACAGACTTG
GATGCCCCGATGGCAGATGGCTCAACGGCACTGATCCTGGCGGCCCGCTGGCAGTAGAGGGCATGGTGGAAAGAG
CTCATCGCCAGCCATGCTGATGTCAATGCTGTGGATGAGCTTGGGAAATCAGCCTTACACTGGGCTGCGGCTGTG
AACAACGTGGAAGCCACTTTGGCCCTGCTCAAAAATGGAGCCAATAAGGACATGCAGGATAGCAAGGAGGAGACC
CCCCTATTCTTGGCGCCCGCGAGGGCAGCTATGAGGCTGCCAAGCTGCTGTTGGACCACTTTGCCAACCGTGAG
ATCACCGACCACTGGACAGGCTGCCGCGGGACGTAGCCAGGAGAGACTGCACCAGGACATCGTGCGCTTGCTG
GATCAACCCAGTGGGCCCCGCGAGCCCCCGGTCCCCACGGCCTGGGGCCTCTGCTCTGTCTCCTCCAGGGGCCCTC
CTCCCTGGCCTCAAAGCGGCACAGTCGGGGTCCAAGAAGAGCAGGAGGCCCCCGGGAAGGCGGGGCTGGGGCCG
CAGGGGCCCCCGGGGGCGGGGCAAGAAGCTGACGCTGGCCTGCCCGGGCCCCCTGGCTGACAGCTCGGTACAGCTG
TCGCCCCGTGGACTCGCTGGACTCCCCGCGGCCTTTTGGTGGGCCCCCTGCTTCCCTGGTGGCTTCCCCCTTGAG
GGGCCCTATGCAGCTGCCACTGCCACTGCAGTGTCTCTGGCACAGCTTGGTGGCCAGGCGGGGAGGTCTAGGG
CGCCAGCCCCCTGGAGGATGTGTACTCAGCCTGGGCCTGCTGAACCTGTGGCTGTGCCCTCGATTGGGGCCCG
CTGCCCCACCTGCCCCCTCAGGCCCCCTCGTTTCTGCTGCCACTGGCGCCGGGACCCAGCTGCTCAACCCAGGG
ACCCCGCTCTCCCCGAGGAGCGGCCCCCGCCTTACCTGGCAGTCCAGGACATGGCGAGGAGTACCCGGTGGCT
GGGGCACACAGCAGCCCCCAAGGCCCCGCTTCTGCGGGTTCAGTGGACCCCTTACCTGACCCCATCCCC
GAATCCCCTGAGCACTGGGCCAGCCCCCTACCTCCCTCCCTCTCAGACTGGTCCGAATCCACGCCTAGCCAGCC
ACTGCCACTGGGGCCATGGCCACCACCACTGGGGCACTGCTGCCAGCCACTTCCCTTGTCTGTTCCAGCTCC
CTTGCTCAGGCCAGACCCAGCTGGGGCCCCAGCCGGAAGTTACCCCAAGAGGCAAGTGTGGCCTGAGACGCT
CGTCAGTTCTTAGATCTTGGGGGCTAAAGAGACCCCCGCTGCTGCTCCTTTCTTTCTGTCTCTTCCCTTCCCT
TGTAGTCTTTTTCATCCTCTTCTCTTTCCACCAACCCCTCCTGCATCCTTGCCTTGACGCTGACCGAGATAGGTCA

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FIGURE 673C

TCAGCCCAGGGCTTCAGTCTTCCTTTATTTATAATGGGTGGGGGCTACCACCCACCCTCTCAGTCTTGTGAAGAG
TCTGGGACCTCCTTCTTCCCCACTTCTCTCTTCCCTCATTCCTTTCTCTCTCCTTCTGGCCTCTCATTTCTTAC
ACTCTGACATGAATGAATTATTATTATTTTTCTTTTCTTTTTTTTTTTTACATTTTGTATAGAAACAAATTCATT
TAAACAAACTTATTATTATTATTTTTTACAAAATATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGT
GCCCCCGTGGGGCTGAGTCTGTGGGCCCATTGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGG
GATCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCTTGGGCGCACCCACTGGGGCCAGGGG
TCGGGGGAGTGTGGGAGCCTCCTCCCCACCCACCTCCCTCACTTCACTGCATTCCAGATTGGACATGTTCCAT
AGCCTTGCTGGGGAAGGGCCCCACTGCCAACTCCCTCTGCCCCAGCCCCACCCTTGGCCATCTCCCTTTGGGAACT
AGGGGGCTGCTGGTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCTTTATGTCCCTGTAAATGTGGGACTAC
AAGAAGAGGAGCTGCCTGAGTGGTACTTTCTCTTCCCTGGTAATCCTCTGGCCCAGCCTTATGGCAGAATAGAGGT
ATTTTTAGGCTATTTTTGTAATATGGCTTCTGGTCAAAATCCCTGTGTAGCTGAATTCCCAAGCCCTGCATTGTA
CAGCCCCCCTCCCTCACCACCTAATAAAGGAATAGTTAACACTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 674

MGPGARGRRRRRRPMSPPPPPPPVRALPLLLLLLAGPGAAAPCLDGSPCANGGRCTQLPSREAACLCPFGWVGER
CQLEDPCHSGPCAGRGVCQSSVVAGTARFSCRCPRGFRGPDCLSLDPCLSSPCAHGARCSVGPDGRFLCSCPPGY
QGRSCRSDVDECRVGEPCRHGGTCLNTPGSFRCQCPAGYTGPLCENPAVPCAPSPCRNGGTCTRQSGDLTYDCACL
PGFEGQNCEVNVDDCPGHRCLNNGGTCVDGVNTYNCQCPPEWTGQFCTEDVDECQLQPNACHNGGTCTFNLTGGHSC
VCVNGWTGESCSQNIDDCATAVCFHGATCHDRVASFYCACPMGKTGLLCHLDDACVSNPCHEDAICDTNPVNGRA
ICTCPPGFTGGACDQDVDECSIGANPCEHLGRCVNTQGSFLCQCGRGYTGPRCETDVNECLSGPCRNOATCLDRI
GQFTCICMAGFTGTyceVDIDECQSSPCVNGGVCKDRVNGFSCTCPSGFSGSTCQLDVDECASTPCRNGAKCVDQ
PDGYECRCAEGFEGTLCDRNVDCCSPDPCHHGRCVDGIAASFSCACAPGYTGTRCESQVDECRSQPCRHHGKCLDL
VDKYLRCRPSGTTGVNCEVNIDDCASNPCTFGVCRDGINRYDCVCQPGFTGPLCNVEINECASSPCGEGGSCVDG
ENGFRCLCPPGSLPPLCLPPSHPCAHEPCSHGICYDAPGGFRCVCEPGWSGPRCSQSLARDACESQPCRAGGTCS
SDGMGFHCTCPPGVQGRQCELLSPCTPNPCEHGGRCESAPGQLPVCSCPQGWQGPCQDQVDECAFPAPCGPHGI
CTNLAGSFSTCHGGYTGPSCDQDINDCDPNPCLNNGGSCQDGVGSFSCSCLPGFAGPRCARDVDECLSNPCGPGT
CTDHVASFTCTCPPGYGGFHCEQDLDPDCSPSSCFNNGGTCVDGVNSFSCLCRPGYTGAHCQHEADFCLSRPCLHGG
VCSAAHPGFRCTCLESFTGPQCQTLVDWCSRQPCQNGGRCVQTGAYCLCPPGWSGRLCDIRSLPCREAAAQIGVR
LEQLCQAGGQCVDDESSHYCVCPEGRTGSHCEQEVDPCLAQPCQHGGTCRGMGGMCECLPGYNGDNCEDDVDE
CASQPCQHGGSCIDLVARVLCSCPPGTLGVLCEINEDDCGPGPPLDSGPRCLHNGTCVDLVGGFRCTCPPGYTGL
RCEADINECRSGACHAAHTRDCLQDPGGGFRLCHAGFSGPRCQTVLSPCESQPCQHGGQCRPSPPGGGLTFTC
HCAQFFWGPRCERVARSRELQCPVGVPCCQTPRGPRCACPPGLSGPSCRSPGSPPGASNASCAAAPCLHGGSC
RPAPLAPFFRCACAQGWGTGPRCEAPAAAEVSEEPRCPRACQAKRGDQRCDRECNSPGCGWDGGDCSLSVGDPW
RQCEALQCWRLFNNRCDPACSSPACLYDNFDCHAGGREERTCNPVYEKYNADHFADGRCDQGCNTEECGWDGLDC
ASEVPALLARGVLVLTVLPPPEELLRSSADFLQRLSAILRTSLRFRDLAHGQAMVFPYHRPSPGSEPRARRELAP
EVIGSVVMLEIDNRLCLQSPENDHCFPDAQSAADYLGALSAVERLDFFYPLRDVRGEPELEPEPSVPLLPVLLVAG
AVLLLVLVLGVMVARRKREHSTLWFPEGFSLHKDVASGHKGRREPVGQDALGMKNMAKGESLMGEVATDWMDE
CPEAKRLKVEEPMGAEEAVDCRQWTQHHLVAADIRVAPAMALTPPQGDADADGMDVNVRGPDGFTPLMLASFCG
GALEPMPTEEDEADDTASIIISDLICQGAQLGARTDRTGETALHLAARYARADAAKRLLDAGADTNAQDHSGRTP
LHTAVTADAQGVFQILIRNRSTDLDARMADGSTALILAAARLAVEGMVEELIASHADVNAVDELGKSALHWAAVN
NVEATLALLKNGANKDMQDSKEETPLFLAAREGSYEAAKLLLDHFANREI

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FIGURE 675

AGGAAATGGTTTCTGGAAAACGTTAGTAAGGTCAGTTTTTAAACACTGAATCCAAGGTTGTCTTCTGGAATATCC
AAATTGGTTATGACCAGAATGTGATTCAATTATACTAAGCTAAAGGAATAGATTAAAGAATTAGCAACAGTGGCCG
GGTGCAGTGGCTCATGCCGTGTAACCCAGCACTTTGGGGGAGGCCAGGTGGGTGGATCATTTGAGGTCAGGAGT
TTGAGACCAGCTGGCCAACATGGTGAAACCTAAAAATACAAAAATTAGCCAGGTGTGGTGGCAGGTGCTTGTA
TCCCAGCTGCTTGGGAGGCTGAAGCAGGAGAATTGCTTGAACCCGAGGCAGGGGTTGCAGTGAGCCAAGATCAC
ACCATTGCACTCCAGCCTGGGTGGCAGAGTGAGACTCTGTCTCAAAAATTAAAAAGCAACAGTGTATATGCAATA
GTTGCAAGATGTAAGATCACCCAAAGAGTATGCAGAGGGAAATGAGGGACAGAACCAGAAATATTAATACCCAG
GGAGTGAACAGGAGGAGGACCCCAAGAAGTTACTGAGTCAGATTTTTCCCACTCATCCAGGTGAAAGTTTAGGTC
AATAATGTGAAATACCAGAGGGATTAAATGTCTACAGAAATAAAACCATGTCTCACATTAAGACAAACAAGTAGG
TTGGAGGGATATTTTGAAAGGCAAGGTGATATTAACTTTATTCTGAAAGTAGTTTGTAGAGAAAGAGGCATGA
TAAGAGTTGCAGTTAACTGATTGAAACTATGCAGCAGATGAAACTGGAATAAAGGAAACTCATCAGGAAATGAT
TATAGTAATAAGGGCCAGAAATAAGGGCTTGCTTGCTGAACTAAAAACAAAGAGGATACAAAGGTTCTAGAAAT
ATTTCAAAGGAATTAGCTTTAATTCAGCAATACTCATTGAGAATCACCTATGCACCTGGCTCTGAAGATGAAGTG
CTGAGTAAACTTAGACATGGACCCTGCTATCATGGAGATGGCAGATTATTGGTCAGAATGCTCTTACCTGTCATT
GTAGCAATTTTGTTAGATCCTTAATACCTCTGAATTGCTAATAAACTTGTTTTGGCTGAAAAAATAGTCCTGTGA
ATTTTACCATGCAGTTAAATAAGAACTAAAAAGCAAACTAAATACCACCAAAAAGGTTAGTAGTCTGTTATATG
CATTAGCCTTAATCTAAGGAAATATTTTATTATAGGTCTCCTTGAAGAAAATGATATTTTCAGGAATGCTCAAGC
AGGTGTTCTCATCAGCACTAATAGTCATCCAATCTTAAGGAAAAACAGAATATTTGATGGATTTGCCGCAGGTAT
TGAAATTACAAATCACGCAACTGCAACACTAGAAGGCAATCAGATTTTTAACAACCGGTTTGGAGGCTTATTTTT
AGCATCTGGTGTTAATGTGACAATGAAAGATAACAAAATAATGAACAATCAAGATGCCATAGAAAAGGCTGTTAG
TAGAGGCCAATGTTTATATAAAATATCAAGTTTATACCAGCTATCCCATGCATGATTTCTACAGATGTCATACTTG
TAACACCACAGATCGAAATGCCATATGTGTGAACTGCATTAAGAAGTGCCATCAGGGACATGATGTAGAGTTTAT
TAGACATGATAGGTATGTAGCACACTTGCTTGATATATTACCCAATTACTTTCCCCCTCACTTTTCTAATATTTG
GGTTTCATTTTGCTTTAGGTTTTTCTGTGACTGTGGTGCTGGAACACTGTCTAATCCTTGACATTAGCTGGTGA
GCCTACACATGATACAGATACACTATATGACTCTGCTCCACCTATAGAATCTAATACATTGCAGCACAACTGAAAT
TCCTTCCCTAAAGAAAAAGTCCTGCCATTGTAACATCATAACTTAAAACACTTTTTTGGGAAGAAGATTTAAAATA
TTTGCCCATGCTACAGGAAGAGACTGTATTAAAAATGGATACACAAGGTCAGTTGACACTATGAAGCTCAAGCTA
CCAAAAAGAAAGTGGCAATATATTGACTCAGGATCTCAAAGCTGGGTGTTTTAGCATTACTGTGTAAAGACTTGA
AGGGACAGAAGTGAAGAAAATAAGCTGCAATTTGTACAGATACCAACTTCTGAAAAGCTGGTGTTTTTTACAAC
AGCATTGAATGCAGTCCAATTTGCAGTAGTAATCTTCAATAGACAAGCAGCTTTGTTGCTGCCTTTATGGACATG
GGTACCAATTGCTTTTGTAAATATGGTAAAAATGTGAGCTAGCACTTCTGCGTTCCCTTTTGATTTTTTTTTTAA
CATGTATTCAGATTGAGAAATATGATTTTAAATGCCTTAATCTCATGTAGTTTGTTTTTAATTTCAAGCAAAATCT
TACTGTACTTGAATGTGCCCTGTTTTGTAGCACACCTAGACTTGCTGTAAGTGTACTCATGTCCCAGTATGTAC
GTTCTTTCTATGAAAGAGAAAACACTAATCTTAAATTTATATCCAGCAATGTTTCTGGTATCCTTTAAGAAAAGTT
AAGACTATTATTTCCCTCCCTTCCCTGTGCAGCATTCAAAAATCACCCCTAGAAAAAGTGAGTGTTTTAAATGAGA
CTTCCTAGGAAGGGATGCACTGTAAACAAAAAGTATTCTTGTAACCTCAGTTTTGTGAAAGGTAAAAAACTACTAT
GTTTTAAGTACACTTTAGAAAGTCTCTTCAAAACAAAACAGTCCTGTATTGAACTCTGTTCATAGTTTTTTTTTG
AACAGTTTGTAGACAAAACCTGTTGGAAATTAAACCAATTTCCCTGCATTAAGCTGAGACAAGTATATAAACAGCCCTA
TACAGTTTCATAGCTTTTCCCTCCCCATTTATGTGTATTGGTGACAGTGGGTATAAACAGCCTGAAAAGTGTATG
CATGTACCATAACATTTAGACTTAATATATTGTGGAGTATTCAATAACCATTATGTAGAAGGTAGATAAGAATTA
AAAGGGTTTAAATTTCCCTAGAAAGAAAATGGAAAAATGGTCATTTTTTAAAAAATAAAGTTTATTAGATCATAATGT
TGTCTGAATTTACCACCTTTGTGAGAAGTCAACTCAAAGCTTCCAATGTAGTCAGTCTATAATTCCTTAATCAAA
GTCAGCAATTTATGGACAGCTTCAGCATTTACAGTTGACCTTTCACTAGCCAGGCAAACTTCCCTTAAATTTAA
AA

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FIGURE 676

MKDNKIMNNQDAIEKAVSRGQCLYKISSYTSYPMHDFYRCHTCNTTDRNAICVNCIKKCHQGHDVEFIRHdryVA
HLLDILPNYFPPHFSNIWVSFCFRFFCDGAGTLSNPCTLAGEPTHDTDTLYDSAPPIESNTLQHN

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FIGURE 677

GAATTCGCCTCGATGGCGTTTATCCGGAAGAAGCAGCAGGAGCAGCAGCTGCAGCTCTACTCCAAGGAGAGATT
TCCTTGCTGCTGCTTAACTTGGAGGAGTACTACTTTGAACAGCATAGAGCCAATCACATTTTGCACAAGGGCAGT
CACCATGAAAGGAAAATCAGAGGCTCCTTAAAAATATGTTCAAAATCGGTGATTTTTGAACCAGATTCAATATCC
CAGCCCATCATCAAGATTCTTTGAGAGACTGTATAAAAAATAGGAAAGCATGGAGAAAATGGAGCCAATAGACAC
TTCACAAAGGCAAAATCTGGGGGTATTTCACTCATTTTCAGTCAGGTATATTTTATTAAAGAACATAATGTTGTT
GCACCATATAAAATAGAAAGGGGCAAAATGGAATATGTTTTTGAATTGGATGTTCCCGGGAAAGTGGAAGATGTT
GTGGAGACGTTGCTTCAGCTTCACAGAGCATCCTGCCTTGACAAATTGGGTGACCAAACCGCCATGATAACAGCT
ATTTTGCAGTCTCGTTTAGCTAGAACATCATTTGACAAAAACAGGTTCCAAAACATTTCTGAAAAGCTGCACATG
GAATGCAAAGCAGAAATGGTGACGCCTCTGGTGACTAATCCTGGACACGTGTGCATCACGGACACAAACCTGTAT
TTTCAGCCCCCTCAACGGCTACCCGAAACCTGTGGTCCAGATAACACTCCAAGATGTCCGCCGATCTACAAAAGG
AGGCACGGCCTCATGCCTCTGGGCTTGGAAGTATTTTGCACAGAAGATGATCTGTGTTCCGACATCTACCTAAAG
TTCTATGAACCTCAAGATAGAGATGATCTCTATTTTTACATTGCCACATACCTAGAGCACCATGTGGCGGAGCAC
ACTGCTGAGAGCTACATGCTGCAGTGGCAGCGTGGACACCTTTCCAACATCAGTACCTCCTTCACCTCAACAAC
CTGGCCGACCGCAGCTGCAACGACCTCTCCCAGTACCCTGTGTTTCCATGGATAATACATGATTATTCCAGCTCA
GAACTAGATTTGTCAAATCCAGGAACCTTCCGGGATCTCAGTAAGCCAGTAGGGGCCCTAAATAAGGAACGGCTG
GAGAGACTACTGACACGCTACCAGGAAATGCCTGAACCAAAGTTCATGTATGGGAGTCACTACTCTTCCCCGGGT
TATGTACTTTTTTATCTTGTTAGGATTGCACCAGAGTATATGCTGTGCCTGCAGAATGGAAGATTTGATAATGCA
GATAGAATGTTCAACAGTATTGCAGAACTTGGAAAACTGTCTGGATGGTGCAACGGATTTTAAAGAGTTAATT
CCAGAATTCTATGGTGATGATGTGAGCTTTCTAGTCAATAGCCTGAAGTTGGATTTGGGAAAGAGACAAGGAGGA
CAGATGTTGACGACGTGGAGCTTCCCCCTTGGGCTTCCAGTCCCGAGGACTTTCTCCAGAAGAGCAAAGATGCA
TTGGAAAGCAATTATGTGTCTGAACACCTTCACGAGTGGATTGATCTAATATTTGGCTACAAACAAAAAGGGAGT
GATGCAGTTGGGGCCCATAAATGTATTTTATCCCTGACCTATGAAGGAGGTGTAGACTTGAACAGCATCCAGGAT
CCTGATGAGAAGGTAGCCATGCTTACGCAAACTTGGAAATTTGGGCAGACACCAAAACAACATTTTGTGACACCA
CATCCTCGAAGGATCACCCCAAAGTTTAAAAGTTTGTCCAGACCTCCAGTTATAATGCTTCTATGGCAGATTCC
CCAGGTGAAGAGTCTTTTGAAGACCTGACCGAAGAAAGCAAAACACTGGCCTGGAATAACATCACCAAACCTGCAG
TTACACGAGCACTATAAAATCCACAAAGAAGCAGTTACTGGAATCACGGTCTCTCGCAATGGATCTTCAGTATTC
ACAACATCCCAAGATTCCACCTTGAAGATGTTTTCTAAAGAATCAAAAATGCTACAAAGAAGTATATCATTTTCA
AATATGGCTTTATCGTCTTGTTTACTTTTACCAGGAGATGCCACTGTCTATAACTTCTTCATGGGATAATAATGTC
TATTTTTATTCCATAGCATTGGAAGACGCCAGGACACGTTAATGGGACATGATGATGCTGTTAGTAAGATCTGT
TGGCATGACAACAGGCTATATTCTGCATCGTGGGACTCTACAGTGAAGGTGTGGTCTGGTGTTCCTGCAGAGATG
CCAGGCACCAAAAGACACCACTTTGACTTGCTGGCCGAGCTGGAACATGATGTGAGTGTAGATACAATCAGTTTA
AATGCTGCAAGCACACTGTTAGTTTCCGGCACCAAAAGAGGCACAGTGAATATTTGGGACCTCACAACGGCCACC
TTAATGCACCAGATTCCATGCCATTGAGGATTGTATGTGACACTGCTTTTAGCCCAGATAGTCGCCATGTCCTC
AGCACAGGAACAGATGGCTGTCTTAATGTCAATTGATGTGACAGACAGGAATGCTCATCTCCTCCATGACATCAGAT
GAGCCCCGACGTGCTTTGTCTGGGATGGAAATCCGTTTTATCTGGCAGTCAGTCTGGTGAAGTGTCTCGTTTG
GACCTCCTTGGAGCAAAATCAGTGAGAGAATACAGGGCCACACAGGTGCTGTGACATGTATATGGATGAATGAA
CAGTGTAGCAGTATCATCACAGGAGGGGAAGACAGACAAATTATATTCTGGAAATTGCAGTATTAAGTGCCTTTT
CCTCTCCTGAATATTAAATTGAACTCTATTTAATGCATTTTTTAAACCAAACCTTTTAAACGGACTGGTGAATGTGC
AATGTTAGTAATTAGAAGTTTTACCACATGGAAAAATTTGTGGTTTTTAAACTTTCTAAATCATGGTGAAGTTCATTG
AAAGCCATTAGTTGCCATTCTCTTAGGGCAGATAAAATGCGGCTGTGTTAGGAAAAACATGTTACACTGTAAGGC
AGATGATCGTCCCCGTATGATGATTGTGAGAAGACAGGACTAAGTAGCAGAGAATAGCTAAGAGATAAAATTGGGC
TGGGGAACCTTGTGAGAAAGCACTGAACAATTAAGAAATTTTCCAAGAAAATGTGCAGTATTCTCTGCTACTTCT
GAATCTGTTTTGTCTTCTAATCTATCACAATTGCCACCATCGGGTTTTGGGTGTGTGTTTTCATAGCGTGGTT
ACTTTCTATAATGCTGTACCCAGATTCTAAGAACCTGGAGAAGGATTAGCAGTTCTTAGTAAGTTTACTGTGTAT
AGGAACGGTTTGTATTTCAATTACAGCTATTCATCTTTTCTACATTAAAAATATTTTTCTCTAAAAA
AAAAA

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FIGURE 678

MAFIRKKQQEQQLQLYSKERFSLLLLNLEYYFEQHRANHILHKGSHHERKIRGSLKICSKSVIFEPDSISQPII
KIPLRDCIKIGKHGENANRHFTKAKSGGISLIFSQVYFIKEHNVVAPYKIERGKMEYVFELDVPGKVEDVETL
LQLHRASCLDKLGDQTAMITAILQSRLARTSFDKNRFQNISEKLHMECKAEMVTPLVTNPGHVCITDTNLYFQPL
NGYPKPVVQITLQDVRRYKRRHGLMPLGLEVFCTEDDLCSDIYLFYEPQDRDDLFFIATYLEHHVAEHTAES
YMLQWQRGHLSTNYQYLLHLNNLADRSCNDLSQYPVFPWIIHDYSSSELDLSNPGTFRDLSKPVGALNKERLERLL
TRYQEMPEPKFMYGSHYSSPGYVLFYLVRIAPEYMLCLQNGRFDNADRMFNSIAETWKNCLDGATDFKELIPEFY
GDDVSFLVNSLKLKDLGKRQGGQMVDDELPPWASSPEDFLQKSKDALESNYVSEHLHEWIDLIFGYKQKGSDAVG
AHNVFHPLTYEGGVDLNSIQDPDEKVAMLTQILEFGQTPKQLFVTPHPRITPKFKSLSQTSYNASMADSPGEE
SFEDLTEESKTLAWNNTKLQLHEHYKIHKEAVTGITVSRNGSSVFTTSQDSTLKMFSKESKMLQRSISFSNMAL
SSCLLLPGDATVITSSWDNNVYFYISIAFGRRQDTLMGHDDAVSKICWHDNRLYSASWDSTVKVWSGVPAEMPGTK
RHHFDLLAELEHDSVDTISLNAASTLLVSGTKEGTVNIWDLTTATLMHQIPCHSGIVCDTAFSPDSRHVLSTGT
DGCLNVIDVQTGMLISSMTSDEPQTCFVWDGNSVLSGSQSGELLVWDLLGAKISERIQGHTGAVTCIWMNEQCSS
IITGGEDRQIIFWKLY

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FIGURE 679

ACTTCCCCCGGCTCCAGCCGGCGCAGGCAGCGGGCGGCAGCAGGCGAGCCTCGGCCCCGCAAGGCCATGAAAGG
TGAAGAAGGGCGGCGGTGGGGCCGGGACGGCGACGGAGTCCGCTCCGGGGCCCTCGGGCCAGAGCGTGGCCCCCA
TACCACAGCCGCCTGCGGAATCCGAATCTGGGTCCGAGTCGGAGCCGGACGCAGGCCCAGGGCCCAGGCCGGGGC
CGCTGCAGAGGAAGCAGCCGATCGGGCCGGAGGACGTGCTGGGGCTGCAGCGGATCACCGGTGACTACCTCTGCT
CCCCTGAGGAGAATATCTACAAGATCGACTTTGTGAGGTTTAAGATTCTGGGACATGGACTCAGGCACTGTCTCT
TTGAAATCAAGAAGCCCCCAGTCTCAGAACGGTTGCCCATCAACCGGCGGGACCTGGACCCCAATGCTGGGCGCT
TTGTCCGCTACCAGTTCACGCCTGCCTTCCTCCGCTGAGGCAGGTGGGAGCCACGGTGGAGTTCACAGTGGGAG
ACAAGCCTGTCAACAACCTCCGCATGATCGAGAGGCACTACTTCCGCAACCAGCTACTCAAAAGCTTCGACTTCC
ACTTTGGCTTCTGCATCCCCAGCAGCAAGAACACCTGCGAGCACATTTACGACTTCCCCCTCTCTCCGAGGAGC
TGATCAGCGAGATGATCCGCCACCCGTATGAGACCCAGTCTGACAGCTTCTACTTCGTGGATGACCGGCTGGTGA
TGCACAATAAAGCAGACTATTCTACAGCGGGACACCCTGACCCCCACGGCTGCCCTGACCCCAGGAGGCTCCAGT
TCTGGGCTGGGAGCTGTGACCTCCCCAACGCTCACCCCTCAACCCCAAGTCCTCTGCTTGGGGAGTTCTCCAGGA
GCTCCGGACCCCTGAGTCAATGTTGGGAGGAAGGGTACCTGGTGTCCCCAGTCAAGCCCATGAAGCCCATGCGGCC
TGCTACATGGGGTGGGGTCGTAGGGAGGCTGTTTGCCCTCCACGTCTAGGAAGGCCTGTGAGAGGAGCAGTCAGGA
CTTCCGGACAACCTTAGCTGGGGCCCTACTTGGGCCCAAGTTTCAGAATAGTGTTCCCCTATCAAGGCTGTGACTAG
ATCAGGCAGGGATCCATTCCCTGTCCCCTGCCCCTACCTTCAGGCCATTTAGAGTTGTAAATTTACAAAGATCC
ACGGTGGGCTCCAGCTGCCAAGCCACCCAAGGGAGTCTGGGCCCTAGGCCTAGCCCCATCCCTCCCCATGAGGGG
CCAAGACACTGCCTAAGGTGTGGGAGGGACTGGCTGAGATTGCAGCCCATGGTAGGAGCTGGACCAACTGTATAT
AGTTTTCAATAAACCTTTTCTCTTTCTGTTCAAAAAAAAAAAAAA

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FIGURE 680

MKVKKGGGGAGTATESAPGPSQSVAPIPQPPAESESGSESEPDAGPGPRPGPLQRKQPIGPEDVLGLQRITGDY
LCSPEENIYKIDFVREFKIRDMDSGTVLFEIKKPPVSERLPINRRDLDPNAGRFVRYQFTP AFLRLRQVGATVEFT
VGDKPVNNFRMIERHYFRNQLLKSFDFHFGFCIPSSKNTCEHIYDFPPLSEELISEMIRHPYETQSDSFYFVDDR
LVMHNKADYSYSGTP

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FIGURE 681

ATGGCGACTGCGACCCCCGTGCCGCCGCGGATGGGCAGCCGCGCTGGCGGCCCCACCACGCCGCTGAGCCCCACG
CGCCTGTGCGGGCTCCAGGAGAAGGAGGAGCTGCGCGAGCTCAATGACCGGCTGGCGGTGTACATCGACAAGGTG
CGCAGCCTGGAGACGGAGAACAGCGCGCTGCAGCTGCAGGTGACGGAGCGCGAGGAGGTGCGCGGCCGTGAGCTC
ACCGGCCTCAAGGCGCTCTACGAGACCGAGCTGGCCGACGCGCGACGCGCTCGACGACACGGCCCCGCGAGCGC
GCCAAGCTGCAGATCGAGCTGGGCAAGTGCAAGGCGGAACACGACCAGCTGCTCCTCAACTATGCTAAGAAGGAA
TCTGATCTTAATGGCGCCCAGATCAAGCTTCGAGAATATGAAGCAGCACTGAATTCGAAAGATGCAGCTCTTGCT
ACTGCACTTGGTGACAAAAAAGTTTAGAGGGAGATTTGGAGGATCTGAAGGATCAGATTGCCAGTTGGAAGCC
TCCTTAGCTGCAGCCAAAAACAGTTAGCAGATGAACTTTACTTAAAGTAGATTTGGAGAATCGTTGTCAGAGC
CTTACTGAGGACTTGGAGTTTCGCAAAAGCATGTATGAAGAGGAGATTAACGAGACCAGAAGGAAGCATGAAACG
CGCTTGGTAGAGGTGGATTCTGGGCGTCAAATTGAGTATGAGTACAAGCTGGCGCAAGCCCTTCATGAGATGAGA
GAGCAACATGATGCCCAAGTGAGGCTGTATAAGGAGGAGCTGGAGCAGACTTACCATGCCAACTTGAGAATGCC
AGACTGTCATCAGAGATGAATACTTCTACTGTCAACAGTGCCAGGGAAGAAGTATGGAAGCCGCATGAGAATT
GAGAGCCTTTTCATCCAGCTTTCTAATCTACAGAAAAGAGTCTAGAGCATGTTTGGAAGGATTCAAGAATTAGAG
GACTTGCTTGCTAAAGAAAAAGACAACCTCTCGTCGCATGCTGACAGACAAAGAGAGAGAGATGGCGGAAAATAAGG
GATCAAATGCAGCAACAGCTGAATGACTATGAACAGCTTCTTGATGTAAAGTTAGCCCTGGACATGGAAATCAGT
GCTTACAGGAACTCTTAGAAGGCGAAGAAGAGAGGTTGAAGCTGTCTCCAAGCCCTTCTTCCCGTGTGACAGTA
TCCCGAGCATCCTCAAGTCGTAGTGACGTACAACAGGAGGAAAGCGGAAGAGGGTTGATGTGGAAGAATCAGAG
GCGAGTAGTAGTGTTAGCATCTCTCATTCCGCTCAGCCACTGGAAATGTTTGATCGAAGAAATTGATGTTGAT
GGGAAAATTTATCCGCTTGAAGAACACTTCTGAACAGGATCAACCAATGGGAGGCTGGGAGATGATCAGAAAAATT
GGAGACACATCAGTCAGTTATAAATATACCTCAAGATATGTGCTGAAGGCAGGCCAGACTGTTACAATTTGGGCT
GCAAACGCTGGTGTACAGCCAGCCCCCACTGACCTCATCTGGAAGAACCAGAAGTCTGTTGGGCACTGGCGAA
GATGTGAAGTTATATTGAAAAATTCTCAGGGAGAGGAGGTTGCTCAAAGAAGTACAGTCTTTAAAACAACCATA
CCTGAAGAAGAGGAGGAGGAGGAAGAAGCAGCTGGAGTGGTTGTTGAGGAAGAAGTCTTCCACCAGCAGGGAACC
CCAAGAGCATCCAATAGAAGCTGTGCAATTATGTAAAATTTTCAACTGTCTTCTCAAATAAAGAAGTATGGTA
ATCTTTACCTGTATACAGTGCAGAGCCTTCTCAGAAGCACAGAATATTTTTATATTTCTTTATGTGAATTTTTA
AGCTGCAAATCTGATGGCCTTAATTTCTTTTTTGACACTGAAAGTTTTGTAAAAGAAATCATGTCCATACACTTT
GTTGCAAGATGTGAATTATTGACACTGAACTTAATACTGTGTACTGTTTCGGAAGGGGTTCTCAAATTTTTTG
CTTTTTTTGTATGTGTGTTTTTTCTTTTTTTTAAAGTTCTTATGAGGAGGGGAGGGTAAATAAACCACTGTGCGT
CTTGGTGTAAATTTGAAGATTGCCCCATCTAGACTAGCAATCTCTTCATTATTCTCTGCTATATATAAACGGTGC
TGTGAGGGAGGGGAAAAGCATTTTTCAATATATTGAACTTTTGTACTGAATTTTTTTGTAATAAGCAATCAAGGT
TATAATTTTTTTTAAATAGAAATTTTGTAAGAAGGCAATATTAACCTAATCACCATGTAAGCACTCTGGATGAT
GGATTCCACAAAACCTGGTTTTATGGTTACTTCTCTCTTAGATTCTTAATTCATGAGGAGGGTGGGGGAGGGAG
GTGGAGGGAGGGAAGGGTTTCTCTATTAATAATGCATTCGTTGTGTTTTTTAAGATAGTGTAACCTTGCTTAAATTT
CTTATGTGACATTAAACAATAAAAAAGCTCTTTT

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FIGURE 682

MATATPVPPRMGSRAGGPTTPLSPTRL SRLQEKEELRELNDRLAVYIDKVRSL ETENSALQLQVTEREEVVRGREL
TGLKALYETELADARRALDDTARERAKLQIELGKCKAEHDQLLLN YAKKESDLNGAQIKLREYEAALNSKDAALA
TALGDKKSLEGDLEDLKDQIAQLEASLAAAKQLADETLLKVDLENRCQSLTEDLEFRKSMYEEEINETRRKHET
RLVEVD SGRQIEY EYKLAQALHEMREQHDAQVRLYKEELEQTYHAKLENARLSSEMNTSTVNSAREELMESRMRI
ESLSSQLSNLQKESRACLERIQELEDLLAKEKDNSRRMLTDKEREMAEIRDQMQQQLNDYEQLLDVKLALDMEIS
AYRKLEGE EERLKLSPSPSSRVTVSRASSRSVRTTRGKRKRVDVEESEASSSVSISHSASATGNVCIEEIDVD
GKFIRLKNTSEQDQPMGGWEMIRKIGDTSVSYKYTSRYVLKAGQTVTIWAANAGVTASPTD LIWKNQNSWGTGE
DVKVILKNSQGEEVAQRSTVFKTTIPEEEEEEEEAAGVVVEEELFHQQGT PRASNRSCAIM

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FIGURE 683A

GGTGAATGGGCTGGTGGTGCTCGCTGCTGCTGCTGAGAGGAGGAGGAGGATGAAGAGTTGGGCTTGTTTGTCTCC
TCCTCCTCCTGCTTCCCCTGCTCAGAGTTCTCGCTCCAGCTGCCAGGGGGGACAGCCAGCCAGCAGCAGGAGGG
GGGCTAGAGAGCTGAAGGAGAGCCAGTTTCCCCAAAATTGGACTTCTCAGAACCTTTAATATGCTAATGTGCATT
GTGAATCTCCAAGAGGGGGATATGATATGCAGCATTCTTGAATACTTCTAATGACAGGGAGCCCACTACCTCATA
AGCTGCAGTGAGAAGAGGAGTTTGTACTTTAAACAGAGGCTGAAGAACTATAGAATTAGCAGAGAAAGTGGAG
AAGGTAGAGGATCGAGTTGCAGACTCTACAGGAGGCTCTTAAAGTGGAAATTCAGGTTACCAGAACTGGTTGC
TCAAATGAAGCAGGATCCACAGAATGCTGACTTAAAGAAACAGCTTCATGAACTCCAAGCCAAAATCACAGCTTT
GAGTGAGAAACAGAAAAGAGTAGTTGAACAGCTACGGAAGAACCTGATAGTAAAGCAAGAACAACCGGACAAGTT
CCAAATACAGCCATTGCCACAATCTGAAAACAACTACAAACAGCACAGCAGCAACCACTACAGCAACTACAACA
ACAGCAGCAGTACCACCACCACCACGCCAGCAGTCAGCTGCAGCCTCTCCCAACCTGACTGCTTCACAGAAGAC
TGTAACCTACAGCTTCTATGATTACCACAAAGACACTACCTCTCGTCTTGAAAGCAGCAACTGCGACCATGCCTGC
CTCTGTGGTGGGCCAGAGACCTACCATTGCTATGGTGACCGCCATCAACAGTCAGAAGGCTGTGCTCAGCACTGA
TGTGCAGAAACACACCAGTCAACCTCCAGACGTTAGTAAGGTCAGTGGGCTGGGGCAGAGGCTGTCCAAATTGT
GGCAAAAAACACAGTCAGTCTGCAGGTTTCCAGCAACACCTCCTCAGCCCATCAAAGTACCACAGTTTATCCCCC
TCCTAGACTCACTCCACGTCCAAACCTTTCTTCCACAGGTTTCGACCCAAGCCTGTGGCCAGAATAACATTCTAT
TGCCCCAGCACCACTCCCATGCTCGCAGCTCCTCAGCTTATCCAGAGGCCCGTCATGCTGACCAAGTTTACCCC
CACAACCCCTTCCACATCCAGAAATTCATCCACCCCGTCCGTGTCGTCATGGGCAGACTGCAACCATAGCCAA
AACGTTCCCCATGGCCAGCTCACCAGCATTGTGATAGCTACTCCAGGGACCAGACTCGCTGGACCTCAAACCTGT
ACAGCTTAGCAAGCCAAGTCTTGAAAACAGACAGTTAAATCTCACACAGAAACAGATGAGAAACAAACAGAGAG
CCACACCATCACCCACCTGCTGCACCCAAACAAACGGGAGGAGAACCCTCAGAACTTGCTTCATGGTGTCTC
TCTAGGGTTGGTAACACATGACCATCTAGAAGAAATCCAAAGCAAGAGGCAAGAGCGAAAAAGAAGAACAACAGC
AAATCCGGTCTACAGTGGAGCAGTCTTTGAGCCAGAGCGTAAGAAGAGTGCAGTGACATACCTAAACAGCACAA
GCACCCCTGGGACCCGGAAGAGAGCCAATGAGGAACACTGGCCAAAGGGTGATATTATGAGGATTTTTGCAGCGT
TTGCAGAAAAAGTGGCCAGTTACTGATGTGCGACACGTGTTCCCGTGATATCATTGGACTGCTTAGACCCCC
TCTGAAAACAATTCCCAAGGGCATGTGGATCTGTCCCAGATGTCAGGACCAGATGCTGAAGAAGGAAGAAGCAAT
TCCATGGCCTGGAACCTTTAGCAATTGTTTCTTCTATATTGCTTACAAAGCAGCAAAAGAAGAAGAGAAACAGAA
GTTACTTAAATGGAGTTTCAATTTAAACAAGAACGAGAACTAGAGCAAAAGGTGAAACAGCTCAGCAATTC
CATAAGTAAATGCATGGAAATGAAGAACACCATCCTGGCCCGGCAGAAGGAGATGCACAGCTCCCTGGAGAAGGT
AAAACAGCTGATTGCGCTCATCCACGGCATCGACCTCTCCAAACCTGTAGACTCTGAGGCCACTGTGGGGGCCAT
CTCCAATGGCCCGGACTGCACCCCCCTGCCAATGCCGCCACCTCCACGCCGGCCCTTCCCCCTCCTCCAGAG
CTGCACAGCGAACTGTAACCAGGGGGAAGAGACTAAATTAACAGAGCCCCCTTAGGAGAAGCCACGGGATCCCGGC
GGCAAGGAGAACAGAACTGAAGACTCTAGAAAAGCAAAAGCCGATTTCTGGAAAGTGCAGAATTCTTTGGTT
CTTTGGTTCCAGAGAGAGAGAAGATGCTTGTGCCAGGTGGCACCAGAGTTTGCCAATTGATCCTTCTTATTCTGT
GTGTACATGCAAAGATTGGACCATGTTACATGAAATAGTGCCAGCTGGAGGTTCTTTGCCAGCACCATGCCAAGT
GAAATAATATATTTACTCTCTCTATTATACACAGTGTGTGCCCTGCAGCAGCCTCCACAGCCACGATGGGTTTGT
TTCTGTTTTCTTGGGTGGGGAGCAGGGACGGGCGGAGGGAGGAGCAGGTTTCAGATCCTTACTTGCCGAGCCG
TTTGTTTAGGTAGAGAAGACAAGTCCAAAGAGTGTGTGGGCTTTCCTGTTTCTAAACTTTTCGCTACTATAAAACC
AAAAAAGGAATTGAGATTTACCAACCCAGTGCCCAAGAGGGAAGGGGAGTGGCTGGAGGGAGCAGGGGGT
GGGACAGTGTATCAAATAAGCAGTATTTAATCACCTCTGGCGGGGGCCTCGTGCAAGGGGAGACTGACACCAAGA
ACAGCCAGTAGGTTCTTCTCCCTGCAGTCTGCTCCCTGCGCGGTAACCCACCACTCCTGAAGCCTGCCAGTC
TCCTTCTTCCCTGCTTGGTGAGTGCAGCATCTCCGTGTTTATCCCGTGTCTCCTCTCCAAGAACAAGCAGAGC
CCGGGCCACTGGCCCTTGCCCAAGGCAGGGAAGAAGGATGTGTGTGTCCAGGAAGGAAAAAAGGTGGATCAGTG
ATTTTACTTGAAAACAAGCTCCATCCCTTTTCTATATTTATAAGAAGAGAAGATCTTGAGTGAAGCAGCACGCGA
CCCAGGTGTGTGAATTGAATGGAGACGTTTCTTTCTTTCTTTAATTTTTGTTTTTGTCTTTTTTCTTT
AAGGAAAGTTTTATTTTACTGTTTCTTTTCTTTTCTTTTCTTTAATTTTTGTTTTTGTCTTTTTTCTTT
TTCAGGCTGACAGTCCAATTAAGGGTAGCCAAGACCTGCATGGTAGAGTAGGAATCATAGTGTGAGTGAGGTCC
CGTGAGTCTTTGTGAGTCCTTGTGTATCGTTTCGGGCACTGTTTTTTTTATGCAAGGGCAAAAATCTTTGTATCTG
GGGAAAAAAACTTTTTTTTAAATTAAGGAAAAATAAAGATATTGAGGTCTTCTAGTGTACTTAAATTAA

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FIGURE 683B

GATCAAGGTAAGAAACATTGTAAAAAAAATTACAAAAGTGCTATTTGTTTCCTAAAAACAGTGATTTCTATTAA
AAAGGTGTCAGAACTGG

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FIGURE 684

MELQTLQEALKVEIQVHQKLVAQMKQDPQNADLKKQLHELQAKITALSEKQKRVVEQLRKNLIVKQE QPDKFQIQ
PLPQSENKLQTAQQQPLQQLQQQQYHHHHAQQSAAASPNLTASQKTVTTASMITTKTLPLVLKAATATMPASVV
GQRPTIAMVTAINSQAVALSTDVQNTFPVNLQTSSKVTGPGAEAVQIVAKNTVTLQVQATPPQPIKVPQFIPPPRL
TPRPNFLPQVRPKPVAQNNIPIAPAPPPMLAAPQLIQRPVMLTKFTPTTLPTSQNSIHPVRVVNGQTATIAKTFP
MAQLTSIVIATPGTRLAGPQTVQLSKPSLEKQTVKSHTETDEKQTESHTITPPAAPKPKREENPQKLAFMVSGL
VTHDHLEEIQSKRQERKRRTTANPVYSGAVFEPERKKS AVTYLNSTMHPGTRKRANEEHWPKGDIHEDFCSVCRK
SGQLLMCDTCSR VYHLDCLDPPLKTIPKGMWICPRCQDQMLKKEEAIPWPGTLAIVHSYIAYKAAKEEEKQKLLK
WSSDLKQEREQLEQKVKQLSNSISKMEMKNTILARQKEMHSSLEKVKQLIRLIHGIDLSKPDSEATVGAI SNG
PDCTPPANAATSTPAPSPSSQSCTANCNQGEETK

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FIGURE 685

GTCCCAGCTAGAGCTCCAGCGCCCGCTCAGGCCCCACTCGACCCTCTCGGGCCTCGGCTACTTGGACTGCGGCGG
AATATGGCGGCTCCGATGACTCCCGCGGCTCGGCCCGAGGACTACGAGGCGGCGCTCAATGCCGCCCTGGCTGAC
GTGCCCCAACTGGCCAGACTCCTGGAGATCGACCCGTACTTGAAGCCCTACGCCGTGGACTTCCAGCGCAGGTAT
AAGCAGTTTAGCCAAATTTTGAAGAACATTGGAGAAAATGAAGGTGGTATTGATAAGTTTTCCAGAGGCTATGAA
TCATTTGGCGTCCACAGATGTGCTGATGGTGGTTTATACTCCAAAGAATGGGCCCGGGAGCAGAAGGAGTTTTT
CTTACTGGAGATTTTAAATGGTTGGAATCCATTTTCGTACCCATACAAAAAACTGGATTATGGAAAATGGGAGCTG
TATATCCCACCAAAGCAGAATAAATCTGTACTCGTGCCTCATGGATCCAAATTAAAGGTAGTTATTACTAGTAAA
AGCGGAGAGATCTTGTATCGTATTTACCGTGGGCAAAGTATGTGGTTCGTGAAGGTGATAATGTGAATTATGAT
TGGATACACTGGGATCCAGAACACTCATATGAGTTTAAGCATTCCAGACCAAAGAAGCCACGGAGTCTAAGAATT
TATGAATCTCATGTGGGAATTTCTTCCCATGAAGGAAAAGTAGCTTCTTATAAACATTTTACATGCAATGTACTA
CCAAGAATCAAAGGCCTTGGATACAACCTGCATTTCAGTTGATGGCAATCATGGAGCATGCTTACTATGCCAGCTTT
GGTTACCAAATCACAAGCTTCTTTCAGCTTCCAGCCGTTATGGAACACCTGAAGAGCTACAAGAAGTGGTAGAC
ACAGCTCATTCCATGGGTATCATAGTCCTCTTAGATGTGGTACACAGCCATGCTTCAAAAAATTCAGCAGATGGA
TTGAATATGTTTGATGGGACAGATTCTGTATTTTTCATTCTGGACCTAGAGGGACTCATGATCTTTGGGATAGC
AGATTGTTTGCCCTACTCCAGCTGGGAAGTTTTAAGATTCTTCTGTCAAACATAAGATGGTGGTTGGAAGAATAT
CGCTTTGATGGATTTCTGTTTGTATGGTGTACGTCCATGCTTTATCATCACCATGGAGTGGGTCAAGGTTTCTCA
GGTGATTACAGTGAATATTTTCGGACTACAAGTAGATGAAGATGCCTTGACTTACCTCATGTTGGCAAATCATTTG
GTTACACACGCTGTGTCCCGATTCTATAACAATAGCTGAGGATGTATCAGGAATGCCAGCTCTGTGCTCTCCAATT
TCCCAGGGAGGGGGTGGTTTTGACTATCGACTAGCCATGGCAATTCCAGATAAGTGGATTTCAGCTACTTAAAGAG
TTTAAAGATGAAGACTGGAACATGGGCGATATAGTATACACGCTCACAAACAGGCGCTACCTTGAAAAGTGCATT
GCTTATGCAGAGAGCCATGATCAGGCATTGGTTGGGGATAAGTCGCTGGCATTTTGGTTGATGGATGCCGAAATG
TATACAAACATGAGTGTCTGACTCCTTTTACTCCAGTTATTGATCGTGGAATACAGCTTCATAAAATGATTCTGA
CTCATTACGCATGGGCTTGGTGGAGAAGGCTATCTCAATTTTCATGGGTAATGAATTTGGGCATCCTGAATGGTTA
GACTTCCCAAGAAAAGGAAATAATGAGAGTTACCATTATGCCAGGCGGCAGTTTCATTAACTGACGACGACCTT
CTTCGCTACAAGTTCCTAAATAATTTTGACAGGGATATGAATAGATTGGAAGAAAGATATGGTTGGCTTGCAGCT
CCACAGGCCTACGTGAGTGAAAAACATGAAGGCAATAAGATCATTGCTTTTGAAAGAGCAGGTCTTCTTTTCATT
TTCAACTTCCATCCAAGCAAGAGCTACACTGACTACCGAGTTGGAACAGCATTGCCAGGGAAATTCAAAATTGTG
CTAGATTACAGATGCAGCGGAATATGGAGGGCATCAGAGACTGGACCACAGCACTGACTTTTTTCTGAGGCTTTT
GAACATAATGGGCGTCCCTATTCTCTTTTGGTGTACATTCCAAGCAGAGTGGCCCTCATCCTTCAGAATGTGGAT
CTGCCGAATTGAAGAGGCCTGATTTTCAGCTCCACCAGATGCAGATTTGTGTTTTGTTTTCTTGTTATCACTGTCA
CACAGCTTATAACATGTATGCTTTTCAGAATACAGTTGTCTAGCCAAGCCATCAAGTGTCTGAAATTCAATATTG
GTTTATGCAAATACAGCAAACCTTTTATTTAAGTAGATAGGAGAATATGTTTAAATATTAGGAATCCTAGACCAT
ATTTTCAAGTCATCTTAGCAGCTAGGATTCTCAAATGGAAGTGTATATATAATATGTTAAAAACATTTTGCTTT
CCTGGCTAATTATTTGATCCTTTTAAATCCAAATTTGAATCATTGTTCATGTATGATTATTTCTGTTAAATGTAC
ACAGTATTTAAGATGGATATTTGGTGGCTCTATTTGTTCTGATATCTTTTGGTCTAAATTATGAGGTACCAAGAT
TGTTTCTTTGTTTCTTTTTTTCAAATTGTGTTTAGAAAATACTGTAATAAATATGCAGTAGTGATATAAAGAATTA
TATCCAAGGTAATATAAAAGCCATTACGTATGAACTCATCCGTGTCTCATTTTGTGTTTTATTTTGTGATCTCTT
GTCCACTAAGTATCTTGTTAAATGCCAGTATCTCAGTCTTTCTGAAGCCCTGAAATGGTAATTGTAGCATTTCAG
AAAATGTCTTTTCATTTCAATCAATAAAAAGCTTTTGTAAAAA

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FIGURE 686

MAAPMTPAARPEDYEALNAALADVPELARLLEIDPYLKPAYAVDFQRRYKQFSQILKNIGENEGGIDKFSRGYES
FGVHRCADGGLYSKEWAPGAEGVFLTGD FNGWNPFSYPYKKLDYGKWELYIPPKQNKSVLPHGSKLKVVITSKS
GEILYRISPWAKYVVREGDNVNYDWHWDPEHSYEFKHSRPPKPRSLRIYESHVGISSHEGKVASYKHFTCNVLP
RIKGLGYNCIQLMAIMEHAYYASFGYQITSFFAASSRYGTPEELQELVDTAHSMGIIVLLDVVHSHASKNSADGL
NMF DGTDCYFHS GPRGTHDLWDSRLFAYSSWEVLRFLLSNIRWWLEEYRFDGFRFDGVTSMLYHHHGVGQGFSG
DYSEYFGLQVDEDALTYLMLANHLVHTLCPDSITIAEDVSGMPALCSPISQGGGGFDYRLAMAIPDKWIQLLKEF
KDEDWNMGDIVYTLTNRRYLEKCIAYAESHQALVGDKSLAFWLMDAEMYTNMSVLTPTFTPVIDRGIQLHKMIRL
ITHGLGEGGYLNFMGNEFGHPEWLD FPRKGNNESYHYARRQFHLTDDDLLRYKFLNNFDRDMNRLEERYGWLAAP
QAYVSEKHEGNKIIAFERAGLLFIFNFHPSKSYTDYRVGTALPGKFKIVLDSDAAEYGGHQRLDHSTDFFSEAFE
HNGRPYSLLVYIPSRVALILQNVDLPN

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FIGURE 687

CTCTCCTCAGCATGGACAGGGGCTTCCCCTTCGCCGCCGCCGCTCGCGGCGGCAAGTCCGCGCGCCCGGTCCTGCG
GCCTATTGCAGTTTATGTTGCTTTTTAGTCGTCAGGGAAAGCTTCGACTGCAAAAATGGTATGTCCCACTATCAG
ACAAAGAGAAGAAAAAGATCACAAGAGAACTTGTTTCAGACCGTTTTAGCACGGAAACCTAAAATGTGCAGCTTCC
TTGAGTGGCGAGATCTGAAGATTGTTTACAAAAGATATGCTAGTCTGTATTTTTGCTGTGCTATTGAGGATCAGG
ACAATGAACATAATTACCTGGAAATAATTCATCGTTATGTGGAATTACTTGACAAGTATTTCCGCCAGTGTCTGTG
AACTAGATATCATCTTTAATTTTGAGAAGGCTTATTTTATTTTGGATGAGTTTCTTTTGGGAGGGGAAGTTCAGG
AAACATCCAAGAAAAATGTCCTTAAAGCAATTGAGCAGGCTGATCTACTGCAGGAGGAGGAAGCTGAAACCCAC
GTAGTGTCTTTGAAGAAATTGGACTGACATTAACTCTCCTCCCTTGTTGATGACTTCTTGTGGCATTTCACACACT
GTAGATGGTCACTCCCTTCATTGTCCATTGTTAGCTCATGGTGTAAGATGATGTCCTTGTTCAGTATTACTGTTTTG
CTAAGCCGCTTCATTCATGCCACACAATTTTTTTTTTAAAGGGAACCTTAGTTAATTAAGTGATAAGGGACTTA
AATATGAATTAGAATGGTGCAGAAAGAGATACCTTTTCTGGATATTTTAAAGTTTAAAGGTCAGTTTCTCTTAAT
CTGATTATGTGCACATATGAAAATGGCACATCATATACATGTAAAATCAGGCAGTATACATTTATTAATTACTGT
ATTTGACAAAGGAAACTCTTAAATTATAATGTGAAACCTGGTTTTATGAAACCAAAGACTAGTGCAGCATTTCAG
CATATGTAAAAAAGGGAATTGACATGTCACATATCAAATGAATGGAACTTTGTTGAACTTTAAAAAG
CAAATTTACTCCAAAGACTTGTATTGGAATTACATACCTTTTTTTTTTTTTTAAAGGACTACAGATTATTTTT
AATGACTAAATTGGAGTGATACTTCTTACACTAAAAATTATTTCTTAGGCATTCTGAATCTGGGATGAGAAACAG
GATTGTTTCACAATAGTAAGCACATAATTTTTAAGGCCAAGGCACATTGACTCCTGAGATGAATTTTTTGTGGT
CATAATCAAATACTTAGTTGTTTTTGATGCCCAAAATAAAGTGAGAATGGTAATTTGCCAGGAATTCTTCATAA
CAGTATCTTACAAAAACGTGTTGCTCTCTTCACAGTATTATGTGTAAAGTCATTGTTTAAAGCACGAATGTTCC
CTCTGGGGTACTTGTTAAAGCTAAATTTATTTTGCTTCCCTCCACTTAGAAGTGCTGCACACTTTACAGCAGCTT
CCTTTCTTTCCATGGCACTGCCTAGTTAACAGAAGTCTTATAAAAAATTTAAAAAGACACATTTCTTACAAAAAG
AGTTGAATGAGGTAAAATGGCATTAGATGGCTCTATATTTTTTAAAGCTATGTAATTGTTTCAGCGTCACTTTTCT
AAGTACTTATACATATCTAAACATGTCTTCAATGGTTTATATTTTCACTTATAATATGCTGGGCTGGATTAAGCT
TTGTTGTGAATTGTGACCCAACATTCAGGCCAACGTTGAGCACTGTCCTTATCACATCTCGCCACAATTAGTTGT
AATAAACCGTTCAACGTACAAACGTACAAACACTGGAGTGTGTTTTATCTCTTTCCAAAAGTTTGTCAAACATAT
GCAGAGCTGCTGAAGGAAGAATTTCTCATTTTTTTTTTTCAGTAAAATGTTGAAAATTTCCCTCCATTTGAATATGG
TGGTTGTTATAAGCACACACAAGATACATGGTGGAAGATCTAAGGAGTCTTCATGTACTTCATTAAAAAATAACA
TGGATTCCATACTGAGAGCCTATCTACACATTTATTTTCAATCAATAAATGCTGCTTTTAAACCTTGAAA

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FIGURE 688

MDRGFPFAAAVAAAASPRARSCGLLQFMLLFSRQGKLRLQKWYVPLSDKEKKKITRELVQTVLARKPKMCSFLÉWR
DLKIVYKRYASLYFCCAIEDQDNELITTLEIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGGEVQETSK
KNVLKAIEQADLLQEEEAETPRSVLEEIGLT

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FIGURE 689

AGCGGTTACCCGCGCTGCCTCCGGTGCCGCTGGCGACCGCTGAGCCGCTTCCCGCGCGTGCCTAGCCCGCCCCCT
CAGCTCGCCGCGAGCCCCGGCTCCTCCCTCGTCCGGCCCCCGGGGCGGGGTCTGTCTAGCTTGCCCTCCCCCTCTCCG
CCTAAGCCTGCCCTATGCCAGCCGGGTGTCTCCCCACAGCACCACGGCTTCTCTTCTCAGCACGGCGACAGGG
GCTTCCCCCTTCGCCGCCGCCGCCGCCGCCGCAAGCTCCGCCGCGCCCGCGGCCCGCGGCCCGCCATGCAGTTTA
TGTTGCTTTTTAGTCGTGAGGAAAGCTTCGACTGCAAAAAATGGTATGTCCCACTATCAGACAAAGAGAAGAAAA
AGATCACAAGAGAACTTGTTTCAGACCGTTTTAGCACGGAAACCTAAAATGTGCAGCTTCCTTGAGTGGCGAGATC
TGAAGATTGTTTACAAAAGATATGCTAGTCTGTATTTTTGCTGTGCTATTGAGGATCAGGACAATGAACTAATTA
CCCTGGAAATAATTCATCGTTATGTGGAATTACTTGACAAAGTATTTCCGGCAGTGTCTGTGAAGTATGATATCATCT
TTAATTTTGAGAAAGGCTTATTTTTATTTTGGATGAGTTTCTTTTGGGAGGGGAAGTTCAGGAAACATCCAAGAAAA
ATGTCCTTAAAGCAATTGAGCAGGCTGATCTACTGCAGGAGGAAGCTGAAACCCACGTAGTGTTCTTGAAGAAA
TTGGACTGACATAACTCTCCTCCCTTGTTGATGACTTCTTGTGGCATTTCACACACTGTAGATGGTCACTCCCTT
CATGTCCATGTTAGCTCATGGTGTAAAGATGATGTCTTGTGCTAGTATTACTGTTTTGCTAAGCCGCTTCATTCATGC
CTACACAATTTTTTTTTTAAAGGGAACCTTAGTTAATTAAGTGATAAGGGACTTAAATATGAATTAGAATGGTGC
AGAAAGAGATACCTTTTCTGGATATTTTAAAGTTTAAAGGTCAGTTTCTCTTAATCTGATTATGTGCACATATGA
AAATGGCACATCATATACATGTAAAATCAGGCAGTATACATTTATTAATTACTGTATTTGACAAAGGAAAACCTCTT
AAATTATAATGTGAAACCTGGTTTTATGAAACCAAAAGACTAGTGCAGCATTTTCAGCATATGTAAAAAAAAAAAA
AAGGGAATTGACATGTCACATATCAAATGAATGGAAAACCTTGTGAAACCTTTAAAAAGCAAATTTACTCCAAAGA
CTTGATTGGAATTACATACCTTTTTTTTTTTTTTTTTTAAAGGACTACAGATTATTTTTAATGACTAAATTGGAG
TGATACTTCTTACACTAAAAATTATTTCTTAGGCATTCTGAATCTGGGATGAGAAACAGGATTGTTTCACAATAG
TAAGCACATAATTTTTAAGGCCAAGGCACATTTGACTCCTGAGATGAATTTTTTGTGGTCATAATCAAATACTTA
GTTGTTTTTGATGCCCAAAATAAAGTGAGAATGGTAATTTGCCAGGAATTCTTCATAACAGTATCTTACAAAAA
ACGTGTTGCTCTCTTCACAGTATTATGTGTAAAGTCATTGTTTAAAGCACGAATGTTCCCTCTGGGGTACTTGTT
AAAGCTAAATTTATTTTGCTTCCCTCCACTTAGAAGTGCTGCACACTTTACAGCAGCTTCCTTTCTTTCCATGGC
ACTGCCTAGTTAACAGAAGTCTTATAAAAAATTTAAAAAGACACATTTCTTACAAAAAGAGTTGAATGAGGTAA
ATGGCATTAGATGGCTCTATATTTTTTAAAGCTATGTAATTGTTTCAGCGTCACTTTTCTAAGTACTTATACATAT
CTAAACATGTCTTCATGGTTTATATTTTCACTTATATATGCTGGGCTGGATTAAGCTTTGTTGTGATTGTGACCA
ACATTCAGGCCACGTGAGCACTGTCTTATCACATCGCCAATTAGTTGTAATAAACGTTCAACGTACAAACACTGG
AGTGTGTTTTTATCTCTTTCCAAAAGTTTGTCAAATATGCAGAGCTGCTGAAGGAAGAATTTCTCATTTTTTTT
TCAGTAAATGTTGAAAATTCCCCTCCATTTGAATATGGTGGTTGTTATAAGCACACACAAGATACATGGTGGAA
GATCTAAGGAGTCTTCATGTACTTCATTAATAAATAACATGGATTCCATACTGAGAGCCTATCTACACATTTATT
TTCAATCAATAAATGCTGCTTTTAAACCTTGA

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FIGURE 690

MDRGFPFAAAVAAAASPRARSCGLLQFMLLFSRQGKLRRLQKWYVPLSDKEKKKITRELVQTVLARKPKMCSFLEWR
DLKIVYKRYASLYFCCAIEDQDNELITLEIIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGGEVQETSK
KNVLKAIEQADLLQEEEAETPRSVLEEIGLT

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FIGURE 691

GGAGGCCAGTGCGCGGCCGCGGTGCTCTACCGGCGTGTGCTCCGCCCCAGGGAGAGCCGGCGCTACC**ATGG**AGG
AGTACCATCGCCACTGCGACGAGGTTGGCTTCAATGCTGAGGAAGCCCAATATTGTCAAAGAGTGTGTAGATG
GGGTTTTAGGTGGTGAAGATTATAATCACAAACAACATCAACCAGTGGACTGCAAGCATAGTGAACAATCCTTAA
CACACCTGGTTAAGTTGGGAAAAGCCTATAAATATATTGTGACCTGTGCAGTGGTCCAGAAGAGCGCATATGGCT
TTCACACAGCCAGCTCCTGTTTTTGGGATACCACATCTGATGGAACCTGTACCGTAAGATGGGAGAACCGGACCA
TGAAGTGTATTGTCAACGTTTTTGGCATTGCTATTGTTCTTT**TAA**CTGACTAAAAATGTTGGGCTAAAGCCATTAA
CTTAAGAATTTGTCAAGTGTATCCTTTCCAAAAAGAGTAATAGTTGTTTACTAGTGTGCTAGATGAAAAGCGTGCA
ATATGCTTTAAAGCTATCAACAAAACTGAATATTATAAGCAAGCAATATCATAGTAATTGGCAGATTAGCTCAT
ATTCTATACAGCATCGTTTAAATAGGAAAAATTTAATGCTAGCAAAAAATAAATTTAGAATATGGCATGACATGA
AAATACAATCTTATATTTACACCAGCTTTTCACTAATATTTTGTACCTAAGGTGATGGGGAACCTCCATTGAGATA
ATAAAATTCTCTTTACAGCTAGAGAAGTTAACAGGAATAAATATATGAACAAAAAAGCTGCAAGGATAAATGTGGA
GAAAATGATGAGAATTAGCTAACATTTTAAAGTTTTTTTAACTTTCTTCCCTCAGTTGTACTTAATATTTAGT
GGAAAGTAATAATTTTTTTTATTTTCTATCAACTAATAGTATAGTAACAATATGATTAACCTTGTCTTACTTTTTCT
GAGGATTAGTAAATCAATTTTTTTTAAATTTCAAATTTTGGATTACACTTGAGGGTAAATTAATCTGGTAAACT
GAATTTCCCTAGTTAAATAAAATTAGTTGCAGTATATGATGAACAGTGTATGACTCAAACAGCTGCCTTACAATTC
ACTCATTCCATGTGGAACAAACATTTATCAGATGCCTATTATGGGCATATGTCTCTGCTAAGCACCATAGTTGTC
AATGTGCTGTGCAAAATGCTAAGTTCCTTTTAGCAATTGTTTCAGTTGGAAGACGTATTAATATTTGGGGAAGGAAA
AGAAAGTAGTTGTTTTACAAGGGAGGAAAAAAGTGAATCTGGTTACACATATGGAAGTAAGCAAAATGAAAAGCA
CTTATTGCTTTCTGACAGAATTATAGATGTAATTTTAAAGAGTTGCTCCTAGCAAGTTAAAAGTGCATATAAAATA
TGCAACTCTTAGTTAAAGGCCTTATTATCAGTCTTACCTATACAAGTAGTAAATTTTGTGCTTTAGTTACA
ACCATCTGTAAATAACTTAAAAGACTTATTATGTGGGGTTCAAATTGAGTGGAATAAAGTATAGATTAAAAGTAT
ACAATCCTTAGCACGTTATCTCAGGGCTTATGAAATGTAATTAAATTTATTAAGAAAATAGATGAAAAATTAGGG
TACACAGCTGGCCACCAAATGCGAAGTCAATCTGCTACTTAACCCTGAAAACAAAATCAGTTTTGCATATTACCA
CTAACACTAATACATATAGAGAGCGGAACCATAACTCATTGAATTTTGGAGAGGAATAAGCTTAGCGTTAATATT
GACAATATTAAGGCAATATTCTTGTAGGAATACTATGTGCATGTTTGATATTTTGCCAAATAACAATAATTAATA
ATTGTTCAATGTTTAAAGAATAATATTAACAAAATAAAGGAGTTAATGCAGTGATCTTTGTTTTTGGCACATCAA
AAATTCTCAGTCATTATTGATGTTTCTTTTATGCTGCTGGCTTTTGTGCCCTGGAAGATCATAATAGTGACCAAA
ATATACATGCAGACTTGTTTTTTTATTATTGTTGTTTAAAGCATAATTTAAGAAAAAAATTTTTACCTGGTGAAC
TGCTATCTGCTCTGTTTCTAGTTAAATATAATAAATATTATCTTCCTGTGCTGTA

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FIGURE 692

MEEYHRHCDEVGFNAEEAHNIVKECVDGVLGGEDYNHNNINQWTASIVEQSLTHLVKLGKAYKYIVTCAVVQKSA
YGFHTASSCFWDTTSDGTCTVRWENRTMNCIVNVFAIAIVL

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FIGURE 693A

CTTTCCCGAGTCCGTTTGAGGAAGTCCCCGAGGCGCACAGAGCAAGCCCACGCGAGGGGCACCTCTGGAGGGGAGC
GCCTGCAGGACCTTGTAAGTCAAAAATGTCAGAACTTCCAGGACCGCCTTTGGAGGCAGAAGAGCAGTTCCAC
CCAATAACTCTAATGCAGCGGAAGATGACCTGCCCACAGTGGAGCTTCAGGGCGTGGTGCCCCGGGGCGTCAACC
TGCAAGAGTTTCTTAATGTCACGAGCGTTCACCTGTTCAAGGAGAGATGGGACACTAACAAGGTGGACCACCACA
CTGACAAGTATGAAAACAACAAGCTGATTGTCCGCAGAGGGCAGTCTTTCTATGTGCAGATTGACCTCAGTCGTC
CATATGACCCCAGAAGGGATCTCTTCAGGGTGAATACGTCATTGGTTCGCTACCCACAGGAGAACAAGGGAACCT
ACATCCCACTGTCCTATAGTCTCAGAGTTACAAAGTGGAAAGTGGGGGGCCAAGATTGTCTATGAGAGAGGACAGGT
CTGTGCGGCTGTCCATCCAGTCTTCCCCCAAATGTATTGTGGGGAAATTCCGCATGTATGTTGCTGTCTGGACTC
CCTATGGCGTACTTCGAACCAGTCGAAACCCAGAAACAGACACGTACATTCTCTTCAATCCTTGGTGTGAAGATG
ATGCTGTGTATCTGGACAATGAGAAAGAAAGAGAAGAGTATGTCCTGAATGACATCGGGGTAAATTTTTTATGGAG
AGGTCAATGACATCAAGACCAGAAGCTGGAGCTATGGTCAGTTTGAAGATGGCATCCTGGACACTTGCCTGTATG
TGATGGACAGAGCACAAATGGACCTCTCTGGAAGAGGGAAATCCCATCAAAGTCAGCCGTGTGGGGTCTGCAATGG
TGAATGCCAAAGATGACGAAGGTGTCTCGTTGGATCCTGGGACAATATCTATGCCTATGGCGTCCCCCATCGG
CCTGGACTGGAAGCGTTGACATTCTATTGGAATACCGGAGCTCTGAGAATCCAGTCCGGTATGGCCAATGCTGGG
TTTTTGTCTGGTGTCTTTAACACATTTTTACGATGCCTTGGAAATACCAGCAAGAATTGTTACCAATTATTTCTCTG
CCCATGATAATGATGCCAATTTGCAAATGGACATCTTCTGGAAGAAGATGGGAACGTGAATTCCAAACTCACCA
AGGATTCAGTGTGGAATACCCTGCTGGAATGAAGCATGGATGACAAGGCCTGACCTTCTGTTGGATTGGAG
GCTGGCAAGCTGTGGACAGCACCCCCCAGGAAAATAGCGATGGCATGTATCGGTGTGGCCCCGCTCGGTTCAAG
CCATCAAGCACGGCCATGCTCTGCTTCCAATTTGATGCACCTTTTGTGTTTTGTCAGAGGTCAACAGCGACCTCATT
ACATTACAGCTAAGAAAGATGGCACTCATGTGGTGGAAAATGTGGATGCCACCCACATTGGGAAATTAATTGTGA
CCAAACAAATTTGGAGGAGATGGCATGTATGGATATTACTGATACCTTACAAATTCGAAGAAGGTCAAGAAGAAGAGA
GATTGGCCCTAGAACTGCCCTGATGTACGGAGCTAAAAAGCCCTCAACACAGAAGGTGTCTATGAAATCAAGGT
CCAACGTTGACATGGACTTTGAAGTGGAAAATGCTGTCTGGGAAAAGACTTCAAGCTCTCCATCACCTTCCGGA
ACAACAGCCACAACCGTTACACCATCACAGCTTATCTCTCAGCCAACATCACCTTCTACACCGGGGTCCCGAAGG
CAGAGTTCAAGAAGGAGACGTTTCGACGTGACGCTGGAGCCCTTGCTCCTTCAAGAAAGAGGCGGTGCTGATCCAAG
CCGGCGAGTACATGGGTGCTGCTGGAACAAGCGTCCCTGCACCTTCTTGTACAGCTCGCATCAATGAGACCA
GGGATGTTCTGGCCAAGCAAAAGTCCACCGTGTACCATCCCTGAGATCATCATCAAGGTCCGTGGCACTCAGG
TAGTTGGTCTGACATGACTGTGACAGTTAGTTTACCAATCCTTTAAAAGAAACCTTGCAGAAATGTCTGGGTAC
ACCTGGATGGTCTGGAGTAACAAGACCAATGAAGAAGATGTTCCGTGAAATCCGGCCCAACTCCACCGTGCAGT
GGGAAGAAGTGTGCCGGCCCTGGGTCTCTGGGCATCGGAAGCTGATAGCCAGCATGAGCAGTGACTCCCTGAGAC
ATGTGTATGGCGAGCTGGACGTGCAGATTCAAAGACGACCTTCCATGTGAATGCACAGGAAGCTGAGATGAACCC
TGGCATTGTGGCTCTTGTAGTCTTGGCTAAGGAAATCTAACGCAAAAATAGCTCTTGCTTTGACTTAGGTGTGA
AGACCCAGACAGGACTGCAGAGGGCCCCAGAGTGGAGATCCCATATTTCAAAAACATACTTTTCCAAACCCAG
GCTATTCCGGCAAGGAAGTTAGTTTTTAATCTCTCCACCTTCCAAAGAGTGCTAAGCATTAGCTTTAATTAAGCTC
TCATAGCTCATAAGAGTAACAGTCATATTTATCATCACAAATGGCTACATCTCCAAATATCAGTGGGCTCTCTT
ACCAGGGAGATTTGCTCAATACCTGGCCTCATTTAAAACAAGACTTCAGATTCCTCCACTCAGCCTTTTGGGAATA
ATAGCACATGATTTGGGCTCTAGAATTCAGTCCCCCTTCTCGGGGTGAGGTTCTACCTCCATGTGAGAATATT
TTTTCCAGGACTAGAGCACAAACATAATTTTTATTTTTGGCAAAGCCAGAAAAAGATCTTTTCAATTTTGCACCTGCA
GCCAAGCAAAATGCCTGCCAAATTTTAGATTTACCTTGTTAGAAGAGGTGGCCCCATATTAACAAATTGCATTTGT
GGGAAACTTAACCACCTACAAGGAGATAAGAAAGCAGGTGCAACACTCAAGTCTATTGAATAATGTAGTTTTGTG
ATGCATTTTATAGAATGTGTACACTGTGGCCTGATCAGCAGGAGCCAATATCCCTTACTTTAACCTTTCTGGG
ATGCAATACTAGGAAGTAAAGTGAAGAATTTATCTCTTTAGTTAGTGATTATATTTACCCATCTCTCAGGAATC
ATCTCCTTTGCAGAATGATGCAGGTTTCAAGTCCCCTTTCAGAGATATAATAAGCCCAACAAGTTGAAGAAGCTGG
CGGATCTAGTGACCAGATATATAGAAGGACTGCAGCCACTGATTCTCTTGTCTTTCACATCACCATTTTGAGA
CCTCAGCTTGGCACTCAGGTGCTGAAGGGTAATATGGACTCAGCCTTGCAATAGCCAGTGCTAGTTCTGACCCA
ACCACAGAGGATGCTGACATCATTTGTATTATGTTCCAAGGCTACTACAGAGAAGGCTGCCTGCTATGTATTTGC
AAGGCTGATTTATGGTCAGAATTTCCCTCTGATATGTCTAGGGTGTGATTTAGGTGAGTAGACTGTGATTCTTAG
CAAAAAATGAACAGTGATAAGTATACTGGGGCAAAATCAGAATGGAATGCTCTGGTCTATATAACCACATTTCT

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FIGURE 693B

GAGCCTTTGAGACTGTTCCCTGAGCCTTCAGCACTAACCTATGAGGGTGAGCTGGTCCCCTCTATATATACATCAT
ACTTAACTTTACTAAGTAATCTCACAGCATTGCGCAAGTCTCCCAATATCCAATTTTAAAATGAAATGCATTTTG
CTAGACAGTTAAACTGGCTTAACTTAGTATATTATTATTAAATTACAATGTAATAGAAGCTTAAAATAAAGTTAAA
CTGATTAT

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FIGURE 694

MSETSRTAFGGRRVPPNNSNAAEDDLPTVELQGVVPRGVNLQEF LNVT SVHL FKERWD TNKVDHHTDKYENNKL
IVRRGQSFYVQIDLSRPYDPRRDLFRVEYVIGRYPQENKGTIIPVPIVSELQSGKWGAKIVMREDRSVRLSIQSS
PKCIVGKFRMYVAVWTPYGVLRTSRNPETDTYILFNPWCEDDAVYLDNEKEREYVLNDIGVIFYGEVNDIKTRS
WSYGQFEDGILDTCLYVMDRAQMDLSGRGNPIKVS RVGSAMVNAKDDEGVLVGSWDNIYAYGVPPSAWTGSVDIL
LEYRSENPFVRYGQCWVFAGVFNTFLRCLGIPARIVTNYFSAHDNDANLQMDIFLEEDGNVNSKLTKDSVWNYHC
WNEAWMTRPDLPVGFGGWQAVDSTPQENS DGM YRCGPASVQA I KHGHVCFQFDAPFVFAEVNSDLIYITAKKDGT
HVVENVDATHIGKLIVTKQIGGDGMMDITDTYKFQEGQEEERLAL ETALMYGAKKPLNTEGVMKSR SNVDMDFEV
ENAVLGKDFKLSITFRNNSHNRYTITAYLSANITFYTGVPKAEFKKETFDVTLEPLSFKKEAVLIQAGEYMGQLL
EQASLHFFVTARINETRDVLAKQKSTVLT IPEII IKVRGTQVVGS DMTVTVQFTNPLKETLRNVVHLDGPGVTR
PMKKMFREIRPNSTVQWEEVCRPWVSGHRKLIASMSDSL RHVYGELDVQIQRRPSM

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FIGURE 695

GCCCCGTGCGGTAAATGGGGCAGAGGCCGGGAGGGGTGGGGGTTCGCCGCGCCGCAGCCATGGAGCAGCTTCGCG
CCGCCGCCCGTCTGCAGATTGTTCTGGGCCACCTCGGCCGCCCCCTCGGCCGGGGCTGTCTGCTAGCTCATCCCACTT
CAGGGACTATTTCTCTGCCAGTTTCCATCCTCAACAATTCAGTATACTCTGGATAATAATGTTCTAACCCCTGG
AACAGAGAAAATTTTATGAAGAAAATGGGTTTCTAGTAATCAAAAATCTTGTACCTGATGCCGATATTCAACGCT
TTCGGAATGAGTTTGAAAAATCTGCAGAAAGGAGGTGAAACCATTAGGATTAACAGTAATGAGAGATGTGACCA
TTTCGAAATCCGAATATGCTCCAAGTGAGAAGATGATCACGAAGGTCCAGGATTTCCAGGAAGATAAGGAGCTCT
TCAGATACTGCACTCTCCCCGAGATTCTGAAATATGTGGAGTGCTTCACTGGACCTAATATTATGGCCATGCACA
CAATGTTGATAAAACAAACCTCCAGATTCTGGCAAGAAGACGTCCCGTCACCCCCTGCACCAGGACCTGCACTATT
TCCCCTTCAGGCCCAGCGATCTCATCGTTTGCGCCTGGACGGCGATGGAGCACATCAGCCGGAACAACGGCTGTC
TGGTTGTGCTCCCAGGCACACACAAGGGCTCCCTGAAGCCCCACGATTACCCCAAGTGGGAGGGGGGAGTTAACA
AAATGTTCCACGGGATCCAGGACTACGAGGAAAACAAGGCCCGGGTGACCTGGTGATGGAGAAGGGCGACACTG
TTTTCTTCCATCCTTTGCTCATCCACGGATCTGGTCAGAATAAAACCCAGGGATTCCGGAAGGCAATTTCTCTGCC
ATTTGCGCCAGTGCCGATTGCCACTACATTGACGTGAAGGGCACCAGTCAAGAAAACATCGAGAAGGAAGTTGTAG
GAATAGCACATAAAATCTTTGGAGCTGAAAATAGCGTGAACTTGAAGGATATTTGGATGTTTCGAGCTCGACTTG
TGAAAGGAGAAAAGAACCAATCTTTTGAAATAGCCATCTGCTATAACTCTTTCAACAGAAAACCAAAACCAACGAA
ATGTCTAAGGAAAATGTTTTCTTAATGAGATGATGTAACCTTTTCTATCACTTGTTAAAAGCAGAAAACATGTAT
CAGGTACTTAATTGCATAGAGTTAGTTTTGCAGCACAAATGGTGTTGCTTTAATGGAAAAAAAAAACAGTAAAAGT
GAAATATTACTGTTTTAAGGAAAACATAATTTAGGGTGGCAGCCAATAAAGGTGGTTGGTGTCTAATTTAAGTGTT
AAATCAATTTCTTTCATTAGTTAGCTCTTTACCCAAGAAGAAGTGAATGATTTGGAGCTTAGGGTATGTTTTGT
ATCCCCTTTCTGATAAACCCATTCCCTACCAATTTTATGTCATAAGAGATTTTTTTCCCCCAATCTAGAACAAT
GTATAATACATTCACATCTAGTCAAGGGCATAGGAACGGTGTCATGGAGTCCAAATAAAGTGGATATTCCTGCTC
GG

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FIGURE 696

MEQLRAAARLQIVLGHLGRPSAGAVVAHPTSGTISSASFHPQQFQYTLDNNVLTLEQRKFYEENGFLVIKNLVPD
ADIQRFRNEFEKICRKEVKPLGLTVMRDVTISKSEYAPSEKMITKVQDFQEDKELFRYCTLPEILKYVECFTGPN
IMAMHTMLINKPPDSGKKT SRHPLHQDLHYFFFRPSDLIVCAWTAMEHISRNNGLVVLPGTHKGS LKPHDY PKW
EGGVNKMFGIQDY EENKARVHLVMEKGD TVFFHPLLIHGSGQNKTQGFRKAISCHFASADCHYIDVKGTSQENI
EKEVVGIAHKFFGAENSVNLKDIWMFRARLVKGERTNL

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FIGURE 697

GCGGACGTGGGCAGGAGGGCTGGAAAAGCCGGCGCTGGAGCGGGAACGGGAGTAGCTGCCTGGGCGCCAAAGGCC
GCGGCACTCCACGCGGACCCCGAAGTCCGCAACCCGGGGATGGGCCCCGCGGCTGCGAGGGGATCTTCTCTGGAT
CAAGCAATGGTGGTGAAAA**ATG**TTTCGCAAGGGCAAAAAACGACACAGTAGTAGCAGTTCCCAAAGTAGCGAAAT
CAGTACTAAGAGCAAGTCTGTGGATTCTAGCCTTGGGGGTCTTTCACGATCCAGCACTGTGGCCAGCCTCGACAC
AGATTCCACCAAAAAGCTCAGGACAAAGCAACAATAATTCAGATACCTGTGCAGAATTTTGAATAAAATATGTTGG
TGCCATTGAGAACTGAAACTCTCCGAGGGAAAAGGCCTTGAAGGGCCATTAGACCTGATAAATTATATAGACGT
TGCCAGCAAGATGGAAAGTTGCCTTTTGTTCCTCCGGAGGAAGAATTTATTATGGGAGTTTCCAAGTATGGCAT
AAAAGTATCAACATCAGATCAATATGATGTTTTGACAGGCATGCTCTCTACTTAATAATCCGGATGGTGTGTTA
CGATGACGGTCTGGGGGCGGGAAAAAGCTTACTGGCTCTGAAGACCACAGATGCAAGCAATGAGGAATACAGCCT
GTGGGTTTATCAGTGCAACAGCCTGGAACAAGCACAAAGCCATTTGCAAGGTTTTATCCACCGCTTTTGA

CTGTCTGT
ATTAACATCTGAGAAACCC**TGA**ATCCTGCAATCAAGTAGAAGTCAACTTCATCTGAAAGTTCAGCTGTTTTCAAA
CTGCAATGCTGAAATGTTATGCAAATAATGAAGTTATCCCTTGCTCTAGATTTTCTGAAGAAAATGGATTGTGTA
AAATGCTGATCATTTGTTTATTAAAATGTGTCTTATTACACAGTGAGTTAACTCTCAATGAAGTCATCTATTTTC
TGGGCTAAAAAACTTCATTTGTCTTTTTCAACTTCTAATAAGCTTAACTTAAGTGTACGAAGACGAGATGTCAC
AGAGGTCCACTCAGTGACAAACACACACTGAAGGCCTGAGGGAAGACTGAGGACATGGGCTCAGTGGTGGCTTCC
CAGTCATGGTATCACTGGCATGGACCTCTGTCCGGCAGAGGTGTGGACTGGAGACCAGGATTCATGCTGGTCTGG
AACAATGACATTGCCAACTTAAGACACACAAAGCAGATTTTCAGAAGTGTCTGGTCAAGATAACATGCTGGCCAA
CCACAATTCCTAGAGTTAAGAGAACCTTAAAAGATTACCGCTCATGCTAAAAGTATGTAAAGATCCCATGTACAG
TATGATAGTGTA

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FIGURE 698

MFRKGKKRHSSSSSSQSSEISTKSKSVDSSLGGLSRSSSTVASLDTDSTKSSGQSNNNSDTCAEFRIKYVGAIEKLK
LSEGKGLEGLDLINYIDVAQQDGKLPFVPPEEEFIMGVSKYGIKVSTSDQYDVLHRHALYLIIRMVCYDDGLGA
GKSLLALKTTDASNEEYSLWVYQCNSLEQAQAICKVLSTAFDSVLTSEKP

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FIGURE 699A

GGCACGGGGACATCAGGATATCCTGAGTGTGTCTGCAGATGGTGGCATCGTGATCGGCTATTCTAGTGGCGTCAC
CAATGGGCTGAATGATGCCAGCGACTCCATCTACACGAAAGGCACCCCGAGATTGCTTTCTGGGGAAGCAATGC
TGGGGTGAAAACAACACGGCTAGAAAGCTCATTCTGAAATGGGGAGCACTGAAATTTTGAAAAGGAGACCCCA
AAATCTCAGTAATGGTACCAGCAGCAATGTGGAAGCAGCCAAAAGGTTGGCCAAACGCCTTTATCAGCTGGACAG
ATTCAAAGATCAGATGTTGCAAAACACCTTGGCAAGAACAACGAATTTAGCAAAGTGTGAGAAGAATATCT
GAAGTTTTTTGATTTTACAGGAATGACGCTGGATCAGTCACTCAGGTATTTCTTTAAAGCATTCTCTCTGTGGG
AGAACTCAAGAACGAGAGAGAGTTTTAATACACTTCTCCAATAGATATTTTTATTGTAACCCAGATACCATTC
TTCACAAGATGGAGTCCATTGCCTTACCTGTGCAATAATGCTTCTTAATACCGATCTACATGGCCACGTGAATAT
TGGAAAGAAGATGACCTGTCAGGAGTTCATTGCAAATCTGCAAGGGGTAAATGAGGGTGTGATTTCTCCAAGGA
TCTGCTGAAAGCTCTGTACAACCTCAATCAAGAATGAGAAGCTTGAATGGGCAGTAGATGATGAAGAGAAAAAA
GTCTCCCTCAGAAAGTACTGAGGAGAAAGCTAACGGAACACATCCAAAGACCATCAGTCGTATTGGAAGTACTAC
TAACCCATTTTGGACATTCTCATGATCCAAATGCTGCTGTGTACAAAAGTGGATTCTTGGCTCGGAAAAATTCA
TGCAGATATGGATGGAAAGAAGACTCCAAGAGGAAAAACGAGGATGGAAAACCTTTTATGCTGTACTGAAGGGAAC
AGTTCTTTACTTGCAAAAGGATGAATACAAGCCAGAAAAAGCCTTGTCTGAAGAGGACTTGAAAAACGCTGTGAG
TGTGCACCACGCATTGGCATCCAAGGCCACGGACTATGAGAAGAAACCAAACGTGTTTAAACTTAAACTGCCGA
CTGGAGGGTCTTGCTTTTTCAAACCTCAGAGCCCAGAGGAAATGCAAGGGTGGATAAAACAAATCAATTGTGTGGC
AGCTGTATTTTCTGCACCACCATTTCAGCAGCAATCGGCTCTCAGAAGAAGTTTAGCCGCCACTTCTGCCTGC
CACTACAACAAAACCTGTCTCAGGAGGAGCAACTGAAGTCACATGAAAGTAAGCTGAAGCAGATCACCACCGAGCT
GGCCGAGCACCGCTCATATCCCCCGACAAGAAGGTCAAAGCCAAGGACGTGATGAGTACAAACTGAAAGACCA
CTATCTGGAGTTTGAGAAAACCCGCTATGAAATGTATGTCAGCATTCTCAAGGAAGGAGGCAAAGAGCTACTGAG
TAACGATGAAAGCGAGGCTGCAGGACTGAAGAAGTCGCACTCGAGTCCTTCGCTGAACCCGGATACTTCTCCAAT
CACTGCCAAAGTCAAGCGTAACGTGTGAGAGAGGAAGGATCACCGACCTGAAACACCAAGCATTAAAGCAAAAAGT
TACTTAGAGTCCATCTGCGGCCAGGAAGTGTGCTGATGGAGCAAAATAGGGTTTTTCAAGATCTTTCTGGTAAT
CCGTGAATATATTTAAAAAAGTCTGTGACAAAACGGTGCATTAGTAATTTTTTCTATTGTATATTTTG
TTAGTTTCTGTACAGATTGTCTTTGCTCTTGATTCTTTTGCTTTGATGATTTTTGCAACTTGATAGCTAATGCA
CCTTTTCTGTGAGGAGGAGGGGATCGTGATTTTCAAGATGAATTATGTATCCCTTCTCTTTGGTTTTCTCTTGT
TGCAGTCTGCTCAGTTGTTTTATGTATTCTCATATCAACTGTTAACTTTTTTTAAGGTTAAAGAATTTAATCC
ATTGTGAAACACTTAACTGGACAACTGTAGTTTTAGTAAATCTAGCTGGAGTTAATATACGCCTTTATATGTG
AAATCTTGCCAGTCACAGAGGTAGAATTGAGCACTCACAGATGCTCCAGTAAGAATCACAGTGTGGGAATCTA
GTTGCTCCAATATGAGGCAGCTTCATGTGCAGCTTAGCACTGTTGTTGAGATCGGACCCTGCTGGAAGCAGGGA
AAAGAAGCGTGAAGATCGTAGGATTGAGAACTTAGGGAAGCACATTAGCTTGCTTGAAGTGTGATTCCATTCA
GCCAAGCAAGGGAAAGAGGAAGTGGAGTCATTTTGCTTTGAAGGCTGAGGAAAGATTGATACCCAGTTAATTTT
GTTTGCTAAAGGATGGGGGCAATAATCGGCCCTTGAGGAGCTGCAGCAGTAGGCATGTGCTCAGTCTGCAGGAAT
TGTTACCTCACTCCACAGGGTCTAGACTAGAAATCCATCATCTCTATCGTTGATATCCTTCCATCCAGGAATAG
ATTTTTCTTACTCTACATATGTGTGTGTGCGTGCCTGTGTGCGTGTGTGGGCATGGGGTGTGTCTCTGGTTGT
GATATTGAGGTCTTCCTTCCCTAACAAATTAATACTAAAAATGAAACAGCTTTTCTTGTGTCTTAAAGACAAAATAA
GGAAGGAAAAACGTAGCTGCAGTTGTCCACGATGGATATTGGTTCTTTAAATATATCTGAAAGTAGTAGTCAGAA
TGAATTATGGTTGGAAAACCTGAGGAATCTTCTGGTTGCAGGTGCAAAGTGACTTTGTTTATTCTTGTCTCAGTCT
CCTTGATAGCCACTTCACCTGCTACTACTCAACTTTCTCCTAAAAATACTTCATCTATTTTCAGTCCCTTTCTTT
CTGTCTACTCAAAAATGGTTCTATTAACTTTGCAGTCATGAGCTTGTTCCAGTTACAGTCCCTTTGAAGTTCAGGG
TGATAAACAGAATATTCTTCTGTAGAGGAAGAGAAAGGAGTGAAAGTTTAGCCCACTGAGACCTAGAGCTTTGTG
ATTTCTTAACCTTGAAACTCTGTAATCCCTAAAGTTAAATCTCCGCAAGTGGCACAACTTCAGAACTAATAGTA
TCACCTTGATTTTCTTTTTCTCCCTTAGAAAGTTTCTCTAGTTCTATAGTTTATTTGTTGAAGGTACTATGAC
CAAAGAATCAGCTGCTCTACAGGAATAGCATGGTTCCAGTGAATTAGAGAAAACCTGCTGTAAAGCCATGGTAGT
GTCTAAGTGGTATGTTATTATGATGTACTAGCATTTATTTACAGAATTATTTATTAACGTTTACTTCCTTCCCT
CTGTAAATGTCCATGACTATTGCCAGAGAAGGCTTACCCCTCTCTAGGGTGCAGTTGCTTTCTTTGTAATAAG
TATTTTGCCACACCTGTAAAAAAGAACTCACTTTTAACTCTCTGCCTTGTTTGGGTAAAGGCAGTAACTAA
GTTTATGTTTCAGAACTGCAAAACAAACAGGATAGTTACCAATATGGCCCATGTGTGAGATTGATTTTTGTAGCC

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FIGURE 699B

TCTCACTGAATCCAACATATCCACAAGCAAGTTATCTGTCTTTCTACCTGATAATCTAAATTATCAGGATATTTG
TTTTCTGCCTAAATGTTTATACTAAGCCGAGGGGAGAGAGGTACCTAGACCATGTCATCTACGAGCTTCAGTAAC
TAAAGAAAAAGGAACCTCCCTGAGTGGCTTGAATGTGTTTGCCACAGTCTATATCTATGTATATAGAATGTCTG
TATGTATTTTACTTATTTAATATACATTGAATGGTACCTTGCTACAGTATTTCTGACATTTAGAGTAGTGTGAA
ATACTCGGCTAGCATCAGCACCCTATAGCACTGTCCGTGTCATATGAGTCACTAATATTAAGTCCAGGGACTTC
TGGATAGGCTAATAGATCATTGGATACGAAGGGCTCTTTTGAAGCTTCAGTATACCATGTTTGCATAGTTTATCT
TTAAAAACAACCTTTAAAGGTTCTTTTGTGAGCCAGGATCTCAGACTGCCGTAGCATGATGCTGTCCATCTTTAGC
GCATGGGCTGAGAACACCTCTTCCCTGAGGCTTCTGAAGGTTGCTGTCTGTCATGAGTGCATGAAGGAGGCCAAG
AGTTTATGCTATGGGAGGAACCAGTCACTGATTTGCCTAGATTCTGAGAGTCTGGCCCATAGCCAACCACATTTT
CCTTTGGGATAATTTATTTCTGTGGCATCTAGCCAGAAGAAATTGAGGATGTTTCTTTTACAGCTGCTCCAAG
CCTGTTGCCCAATTCACGGTACAAGGGAGCACCCCTTCCCTTTCTCTGAAGGTACGCCACCCACCTCCGTCGCC
CACCTCAGCGCCCAGGAGCCTTGGGACTTCCTTCCATATGATAAATCATTCTTCTTACGTCAATACACTTCATA
TTAATTTCTAGTACAGAAAATCTTGACAGCTATCAGAATGCCTTGGTCATAGTGTGTTGTGCAAAATTGACCATAC
AGGTGGCCCATGTATAAAATCTGAATTTTAGGGGTTTGTCCCCACCTCGCATGCTGGCTTTTACAGGGAGGTGTC
TGGGATTCTCATTAGCAATCAAACTTAATTACTGGGATGCAGAGTCTTACTTTATCGCCAGCCCGTAGGCAT
TTCTGAAGTGCACCTTTTTTGAACATCATTTTGTCTAACTCTCAGCAGTGTCTAATTAACTGAGCAATACTTTTG
TGAATTTTAAATTAATCTCAGCAAAACCATGATGGGAGAGAGTCTCTGATGGAAATGTAGTCCCTGGATTATGTG
TAACCTTTTTTATTGCTCTTAGATGCAGAGGATAGAAAACATTTTTTGGTGCAGTGGTCTTGTGGCAAAACACAAGA
CCCTCTATGCGTCTCCAACGTATCTTAATCTAGAAAATGAGGACTGGCCCTGGGCAAAAGTGACATGAGGAA
TTTACTCTGGAAGAGGAAAATCTGGGTGGCTTTTCCAAGGCTAAGATAGGTTTGTATTTACCCCTGTGGCCAAGCT
ACAGAACTTCTGAGATTGTGGAAGAATTTTTGCAACCAGCAGGGAAAGAGGCCTCTTACTGCCTAAACACAAAGT
TACACTGAGCTTTTCTACTGTCCTTTGCCTATTGCTCCCTCTATCATGTAAAGATCTGGGAAGGATGAGAGGCAG
GGCCTGCTTGTATGAGCTGCACTCTTTTCTTTTAACTAATCATTGACAATTGGAAGAAAATTGACGTTAAAGA
AGTTTCTCCATTGTCTTACTAACAAAACCTTTTGGGTTTCATTAATTGTCCTTGAAATTGAGTTCTTTTGGCATT
TTTCTTGCAGTCATCAGTTAAGCATGTTGCATCCTGAATTCACAGAAGTTTAGCTTTGCAGGTTTGAATCTCTG
TAATTTAACTCCCGTGGACTTGGTCGAGTTTTTGCAGAGTTGGGAGCCACCTCTCTTCAATTCAGCAGTGAGTCA
TCCCTTGACTTTTCAAATGACAGAATTTTTTCCAATTGTAAATTAGCACTGTAAACAAAAGAACCAAGTGGCA
TCCTAAGAGTTGTTAAACCTGAAGTCTAGTTTATGAGGAATTGTCCAAGTTGGAGTTTAAATAGTATCTGCTTTT
GTCTCAAAGCATCTAAGTTATTTCTGACAGAAAATGGTAAGTCAGCTTGCAGGCAGATGCGCCTCTGGGCCTCCT
ACCTTGCTCCACAGCTTTCTGGCCATCTTGTCTCCAGGCCATGCCACTGCTCTGCCACATGTCAGCAAAATTTCT
TTCCACCAGTCTTATAGCATCTTACATGATCAAATCATCACAGAATAACCCCGTGATAGATTATTGATAGCAATA
GAGAGGGGCGGCTTTGTCACTGATTTTTCTCTCAGATTCCCTTTTCCATCTCTCATCCATAAAGGAAGGACTGAAA
TCCAAAGGCATTCTCCTTTTGTACCTACAGTATCCAGAACCACGTGGGCAGCCTTCTGCTTATGACAATAATTG
GCCCATTGCATGCAGAGAGAATGTCTTCATAGAGAGAAATGTCATTAAATACTTGAATCTGCATGACAGTTTGACT
TGAATGCAACAGCAGGAAAATTTTGAAGTTACATAATTGTATATACAGTAGGTTTTCTTAAGTCTCTTCGGTTC
ATCCTTTGTAAATTTGTGTGTATCTGTAGTATTGCAGGCTTTTGGAGACTATTCTTACAGGCAGTATGTCAGTC
ATCAAAGAAAAATGCTGTACCTGCCATTGTTGTATTGTGTTGTTTATAGTTGTATGTATGTAAATGCATCAGT
GTGTAGATTGCATATCAGTGTATGGTACATGTACATCAAAATTAATTTTTGTCTTAATCAGTGTGATATGAAAAG
CAAGTACAACCTCATAGGACTGATTATATAATGAAGTTGTTGAGAGTATATATAGTGGTATTGTTTTATTAACT
TAAACTCAAAATAATTTTTGATTAAATTTTTTAATAAGACTTTATGCTAGAAAATTTCTTTGAGCTTTGAATCACC
AGGGCAAAAATGACTTTCAACTAACCTTGTGAATCTTTTGCAGTGTACTGTGTGCAATACCAAGGGCATAGCTCC
CTGTAATTTGGGAAATACAGAAAGAAAAGAAAAA

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FIGURE 700

MGYSSGVTNGLNDASDSIYTKGTPEIAFWGSNAGVKTTRLEAHSEMGS TEILEKETPENLSNGTSSNVEAAKRLA
KRLYQLDRFKRSDVAKHLGKNNEFSKLVAEEYLKFFDFTGMTLDQSLRYFFKAFSLVGETQERERVLIHFSNRYF
YCNPD TIASQDGVHCLTCAIMLLNTDLHGHVNIGKKMTCQEFIANLQGVNEGVD FSKDLLKALYNSIKNEKLEWA
VDDEEKKKSPSESTEEKANGTHPKTISRIGSTTNPF LDIPHDPNAAVYKSGFLARKIHADMDGKKTPRGKRGWKT
FYAVLKGTVLYLQKDEYKPEKALSEEDLKNAVSVH HALASKATDYEEKPNVFKLKTADWRVLLFQTQSPEEMQGW
INKINCVA AVFSAPPPFAAIGSQKKFSRPLL PATTTKLSQEEQLKSHESKLKQITTELAEHRSYPPDKKVKADV
DEYKLKDHYLEFEKTRYEMYVSILKEGGKELLSNDESEAAGLKKSHSSPSLNPD TSPITAKVKRNVSEK DHRPE
TPSIKQKVT

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FIGURE 701

GTGGCCGCGCAGGAGGACGGAGCCCTAACCGCAACCCGCGCCGCGCCGCGCCGATTGATTGTATCCACTGTCA
CCAGCACTGCTCACTTAGGACTTTCTGGATCCAGACCCAGGCAGCGCACACTGGACTCTTGAGGAAGAAGGAGAC
TCTAATTTTGGATTCCCTTGGTGGAGGAAAATAAAACACTCTGGTCTTGCCGCCAACGATGCAAGTGTGACTGCTG
GCGTCTTC**ATG**AGCTCCAGAGGTCACAGCACGCTACCAAGGACTCTCATGGCCCCCTCGGATGATTTCCGAGGGAG
ACATAGGAGGCATTGCTCAAATCACCTCCTCTCTATTCTGGGCAGAGGCAGTGTGGCCTCCAATCGGCACCTCC
TCCAGGCTCGTGGCATCACCTGCATTGTTAATGCTACCATTGAGATCCCTAATTTCAACTGGCCCCAATTTGAGT
ATGTTAAAGTGCCTCTGGCTGACATGCCGCATGCCCCATTGGACTGTACTTTGACACCGTGGCTGACAAGATCC
ACAGTGTGAGCAGGAAGCACGGGGCCACCTTGGTGCCTGTGCTGCAGGGGTGAGCCGCTCAGCCACGCTGTGTA
TCGCGTACCTGATGAAATTCACAAACGTGTGCCTGCTGGAGGCATACAACCTGGGTGAAAGCCCGGCACCTGTCA
TCAGGCCCAACGTAGGCTTCTGGAGGCAACTGATAGACTACGAGCGCCAGCTCTTTGGGAAGTCGACAGTTAAAA
TGGTACAGACACCTTATGGCATAGTTCCCGACGTCTATGAGAAGGAGTCCCGACACCTGATGCCTTACTGGGGGA
TT**TAG**TGCCACTGAAGCCTGCGTCAGCAGCCGAGCGGGGCCGGCATCTGCTCCCCGCCGTCTGCTCCCTCTCCA
CTCTCTTCTCAAATGGCTGACTTCTGGTTCTCCCTCAAGTGTTTTTACACTGGGTGTTCAAATTTATTTAAGA
GATAGGGAGGGAGGGGACATAAAGGGAATGCATACATTGCTAGTCACATTTTTTAAATTAACATTTTGGAATAGT
GTTTATGGAAATCTTTAGCTTTTAAATCATTTTTTACCAATTTGAACAGTTTAAATAAACTGGTTCTGCTCTCTTCTG
AATCTCATGCCTTTGGCACCTTGGTAGGTGCAGGAGGAGCTCAGTGCAAAAATCACTTTGGGGCCTCATTAACCC
TTTAGAGACAAGCTTTGCCCCAGGCTGCGGACCAGACAGATGCTTAGGGAAGGTTGATACCAGCTTCAGTCTCTA
CTGGATTAGCCCTACTCTTTCCTTTCCCTCCATTATTTAGTGACTCTGTAAGTAAGTTAAATACACCCTTATTA
TTTAGCTGTTAAGTAATAATGAAATCTGCTGCAAAATCTCTCTTGGAATCCATGTGCCCAGGATTATATTAG
CATTATTTTAAATAAATCTATATGCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 702

MSSRGHSTLPRTLMAPRMISEGDIGGIAQITSSLFLGRGSVASNRHLLQARGITCIVNATIEIPNFNWPQFEYVK
VPLADMPHAPIGLYFDTVADKIHSVSRKHGATLVHCAAGVSRSATLCIAYLMKFHNVCLEAYNWKARRPVIRP
NVGFWRQLIDYERQLFGKSTVKMVQTPYGIVPDVYEKESRHLMPYWGI

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FIGURE 703

CTGGTGACTCGCGGCGGCGGCGGCGGACGGCCAGCCGGAGCGCGAGGGGCTCGGGGGGCGCGGCGGTTCTGGGT
CGCAGAGCCAGGGACCCAGGACCCGGGAGGCGGCGCAGCCGGGGCCGCCGGAGGAGCGCGGGTGACCTGGCGGC
GGCGAGATGCCGCTCGCCCAGCTCAAGGAGCCCTGGCCGCTCATGGAGCTAGTGCCGCTGGACCCGGAGAATGGA
CAGACCTCAGGGGAAGAAGCTGGACTTCAGCCGTCCAAGGATGAGGGCGTCCTCAAGGAGATCTCCATCACGCAC
CACGTCAAGGCTGGCTCTGAGAAGGCTGATCCATCCCATTTCGAGCTCCTCAAGGTTCTGGGCCAGGGATCCTTT
GGCAAAGTCTTCCTGGTGCGGAAAGTCACCCGGCCTGACAGTGGGCACCTGTATGCTATGAAGGTGCTGAAGAAG
GCAACGCTGAAAGTACGTGACCGCGTCCGGACCAAGATGGAGAGAGACATCCTGGCTGATGTAAATCACCCATTC
GTGGTGAAGCTGCACTATGCCTTCCAGACCGAGGGCAAGCTCTATCTCATTCTGGACTTCCTGCGTGGTGGGGAC
CTCTTCACCCGGCTCTCAAAGAGGTGATGTTACGGAGGAGGATGTGAAGTTTTACCTGGCCGAGCTGGCTCTG
GGCCTGGATCACCTGCACAGCCTGGGTATCATTTACAGAGACCTCAAGCCTGAGAACATCCTTCTGGATGAGGAG
GGCCACATCAAACCTCACTGACTTTGGCCTGAGCAAAGAGGCCATTGACCACGAGAAGAAGGCCTATTCTTTCTGC
GGGACAGTGGAGTACATGGCCCTGAGGTGCTCAACCGCCAGGGCCACTCCCATAGTGCGGACTGGTGGTCTTAT
GGGGTGTGATGTTTTGAGATGCTGACGGGCTCCCTGCCCTTCCAGGGGAAGGACCGGAAGGAGACCATGACACTG
ATTCTGAAGGCGAAGCTAGGCATGCCCCAGTTTCTGAGCACTGAAGCCAGAGCCTCTTGCGGGCCCTGTTCAAG
CGGAATCCTGCCAACCGGCTCGGCTCCGGCCCTGATGGGGCAGAGGAAATCAAGCGGCATGTCTTCTACTCCACC
ATTGACTGGAATAAGCTATACCGTCGTGAGATCAAGCCACCCTTCAAGCCAGCAGTGGCTCAGCCTGATGACACC
TTCTACTTTGACACCGAGTTCACGTCCCGCACACCCAAAGGATTCCCCAGGCATCCCCCCCAGCGCTGGGGCCCAT
CAGCTGTTCCGGGGCTTCAGCTTCGTGGCCACCGGCCTGATGGAAGACGACGGCAAGCCTCGTGCCCCGCAGGCA
CCCCTGCACTCGGTGGTACAGCAACTCCATGGGAAGAACCTGGTTTTTGTGACGGCTACGTGGTAAAGGAGACA
ATTGGTGTGGGCTCCTACTCTGAGTGCAAGCGCTGTGTCCACAAGGCCACCAACATGGAGTATGCTGTCAAGGTC
ATTGATAAGAGCAAGCGGGATCCTTCAGAAGAGATTGAGATTCTTCTGCGGTATGGCCAGCACCCCAACATCATC
ACTCTGAAAGATGTGTATGATGATGGCAAACACGTGTACCTGGTGACAGAGCTGATGCGGGGTGGGGAGCTGCTG
GACAAGATCCTGCGGCAGAAGTTCTTCTCAGAGCGGGAGGCCAGCTTTGTCTGACACACCATTTGGCAAACTGTG
GAGTATCTGCACTCACAGGGGGTTGTGCACAGGGACCTGAAGCCCAGCAACATCCTGTATGTGGACGAGTCCGGG
AATCCCGAGTGCCTGCGCATCTGTGACTTTGGTTTTGCCAAACAGCTGCGGGCTGAGAATGGGCTCCTCATGACA
CCTTGCTACACAGCCAACCTTTGTGGCGCCTGAGGTGCTGAAGCGCCAGGGCTACGATGAAGGCTGCGACATCTGG
AGCCTGGGCATTCTGCTGTACACCATGCTGGCAGGATATACTCCATTGGCCAACGGTCCCAGTGACACACCAGAG
GAAATCCTAACCCGGATCGGCAGTGGGAAGTTTACCCTCAGTGGGGGAAATTGGAACACAGTTTCAGAGACAGCC
AAGGACCTGGTGTTCAAGATGCTACACGTGGATCCCCACCAGCGCCTCACAGCTAAGCAGGTTCTGCAGCATCCA
TGGGTACCCAGAAAGACAAGCTTCCCCAAAGCCAGCTGTCCCACCAGGACCTACAGCTTGTGAAGGGAGCCATG
GCTGCCACGTACTCCGCACTCAACAGCTCCAAGCCCACCCCCCAGCTGAAGCCCATCGAGTCATCCATCCTGGCC
CAGCGGCGAGTGAGGAAGTTGCCATCCACCACCCTGTGAGGGCACCAGGGCATTTCGGGCCACAGGGCGGTGCTAGC
TTGACAGAGTCAGCATGCTTCCCAGAGGGAGCAGGCCGGAACACAGGGCCAGAGGGAGCTGGAACCCGAGGGGC
CGGGGAAGCTGCCAGCCCAGAACCCCCCTAATGAGGGTGTGAGAAAGTGCCTTCTCCTTCCCAGGATGGACTCTT
CTCGGCTCAGGCTCTGCTGGTGGAAAGCGATTCACTGTATAAACTTTTTTTTATGAAAAAATGGCATCAACCAC
CATGGATTTTTACAAGATCCATTTGCCTTTCTGGGAGCAGAAAACAGCCATTGCGGCCCCAGGAGGGGAACTGAGT
CACGCTGGGGCTCTCTGAGACTCTTTAGAGCAGCTTTGGGATCCCACCCTGGGGACCCCATGATTGGCCACCTG
TAGCCATCTGCACACACCTCCGAGACAGTCCAGTGTACCTCTCTCAGAGCATCTGGCTGTTTAGCAGAACTCAT
TCTATCCCCAATCAGCTCCTTTTTCCGTTCTGTTCTGCTGGGAGTTCTAGAACCACTTCCTGCTACAGGAGGGGTC
TCATGTCTCTGCTGGCTTCCAGCTTCAGGCACCAGCATCCACCTTGGCTCTGCCAGTGGATCCCCTGCGGTCAGGC
TGGGCAGCCCCAGAGAGAGGATGTGGAAAGCACTTTTTGGCTGACTTCATCTGGGGTTGGCAACAGGACAGAGTT
CACAGGAGGCCAGTGGGCGGGCCATGAGGGACAGGGTCTTTTTTCATTTCTTCCTCAGCTGGTTACTCAGGGTTC
ATCTGTCCATGGCCTTTCTAATAAACTGTTGAGTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 704

MPLAQLKEPWPLMELVPLDPENGQTSGEEAGLQPSKDEGVLKEISITHHVKAGSEKADPSHFELLKVLGQGSFGK
VFLVRKVTRPDSGHLYAMKVLKKATLKVRDRVRTKMERDILADVNHFPFVVKLHYAFQTEGKLYLILDFLRGGDLF
TRLSKEVMFTEEDVKFYLAELALGLDHLHSLGIIYRDLKPENILLDEEGHIKLTDFGLSKEAIDHEKKAYSFCGT
VEYMAPEVVNRQGHSHSADWWSYGVLMFEMLTGSLPFQGKDRKETMTLILKAKLGMPQFLSTEAQSLLRALFKRN
PANRLGSGPDGAEEIKRHVFYSTIDWNKLYRREIKPPFKPAVAQPDDTFYFDTEFTSRTPKDSPGIPPSAGAHQL
FRGFSFVATGLMEDDGKPRAPQAPLHSVQQQLHGKNLVFSDGYVVKETIGVGSYSECKRCVHKATNMEYAVKVID
KSKRDPSEEIEILLRYGQHPNIIITLKD VYDDGKHVYLVTELMRGGELLDKILRQKFFSEREASFVLHTIGKTVEY
LHSQGVVHRDLKPSNILYVDESGNPECLRICDFGFAKQLRAENGLLMTPCYTANFVAPEVLKRQGYDEGCDIWSL
GILLYTMLAGYTPFANGPSDTPEEILTRIGSGKFTLSGGNWNVTSETAKDLVSKMLHVDPHQRLTAKQVLQHPWV
TQKDKLPQSLSHQDLQLVKGAMAATYSALNSSKPTPQLKPIESSILAQRRVRKLPSTTL

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FIGURE 705

GCGTGGAGGTCGACGACTCCGTCGCAGACTACGGACCTGTCTGGGTCTCAGCCGCCAAAAGACCCCGTCCGGTAGG
TGAGTGGCTCACTTTGAGGGCAAGCCTTCTCGGATCGAGGCTTCTTCATGGCCGCTCAGATCGTGAGCGGCCGGG
GCTGCTCTCTTTGCGGAGGATGGCGTCTAATGAGCGCAGTTGATTCGAGGAAGTACTAGCCGGACATCATGAGTG
GCTGTCGGGTATTTCATCGGGAGACTAAATCCAGCGGCCAGGGAGAAGGACGTGGAAAGATTCTTCAAGGGATATG
GACGGATAAGAGATATTGATCTGAAAAGAGGCTTTGGTTTTGTGGAATTTGAGGATCCAAGGGATGCAGATGATG
CTGTGTATGAGCTTGATGGAAAAGAACTCTGTAGTGAAAGGGTTACTATTGAACATGCTAGGGCTCGGTCACGAG
GTGGAAGAGGTAGAGGACGATACTCTGACCGTTTTAGTAGTCGCAGACCTCGAAATGATAGACGGTATGTGAAGG
GTGGATGGCTGCATTTGAACAATTATTGTAGGGGTAGCATTTAAGATTTCAGGAGTCATTAGCAGTGATGATTTTGG
GACCTGCCGTATAATCTGTTCTTCTATTCCCACGTTAGCCAATTGTTCTTGATGAATCTATATGAGTCATAGAAC
ACAAATCTATTGACGGAAGTCATTAGAATGGCTTGTGATATCTGATGGCTTGAACTTGCCACAGTTGAACACAA
GTGCTGTCATTGCATTTCTTCCATTGTGAATACGAATTTTCTTCTCAGAAATGCTCCACCTGTAAGAACAGAAA
ATCGTCTTATAGTTGAGAATTTATCCTCAAGAGTCAGCTGGCAGGATCTCAAAGATTTTCATGAGACAAGCTGGGG
AAGTAACGTTTGCGGATGCACACCGACCTAAATTAAATGAAGGGGTGGTTGAGTTTGCCTCTTATGGTGACTTAA
AGAATGCTATTGAAAAACTTTCTGGAAGGAAATAAATGGGAGAAAAATAAAATTAATTGAAGGCAGCAAAAGGC
ACAGGTCAAGAAGCAGGTCTCGATCCCGGACCAGAAGTTCCTCTAGGTCTCGTAGCCGATCCCGTTCCCGTAGTC
GCAAATCTTACAGCCGGTCAAGAAGCAGGAGCAGGAGCCGGAGCCGGAGCAAGTCCCGTTCTGTTAGTAGGTCTC
CCGTGCCTGAGAAGAGCCAGAAACGTGGTTCTTCAAGTAGATCTAAGTCTCCAGCATCTGTGGATCGCCAGAGGT
CCCGGTCCCGATCAAGGTCCAGATCAGTTGACAGTGGCAATTAAGTCTAAATAACTTGCCCTGGGGGCCTTTTT
TTTTAAAAACAAAAACCACAAAAATTCCCAAACCATACTTGCTAAAAATTCTGGTAAGTATGTGCTTTTTCTGTG
GGGGTGGGATTTGGAAGGGGGTTGGGTGGGCTGGATATCTTTGTAGATGTGGACCACCAAGGGGTGTTGAAA
ACTAATTGTATTAAATGTCTTTTGATAAGCCTTCTGCTCACATTTTTGTGAATGTCTGAAGTATATAGTTTGTGT
ATATTGACAGAGCTCTTTTATACTAAAGCAAATTTAATTTTTTTGTACTAGAAAAAATTTGAACATTTTAGTT
CTTGTTTATAAAAAATGTTAATTCAGAATTAGTTTAATGCCTTAATTAACTAATTAATAGCTTTGGACACTTAAA
AGAGCTCTAAATTTGCTTGACATAAAGGCTTAATTTGTTTTCTTGTAGGGTCAAGGGTGTCTTCCACTCTTT
AACAGCTGCTGGACAGACACATTAGAGCAGCTGTTTGTATTGATAATAAAATATTATAAACTA

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FIGURE 706

MSGCRVFIGRLNPAAREKDVERFFKGYGRIRDIDLKRGFGFVEFEDPRDADDAVYELDGKELCSERV TIEHARAR
SRGGRGRGRYSDRFSSRRPRNDRRYVKGGWLH

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FIGURE 707

CGCAGCGGAGGTGAAGGACGTCCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAGGTTCTGTGG
GCTGCGTTGCTGGTTCACATTCTTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCC
GAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAGTGGCACTGGGTGCTTTTGGGATTACCTG
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTCAACCAGGAAGTGAAGGCG
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCACAAATCGGAAGTGGAGGAACAAGTGAACCCGGTGGCGGAG
GAGACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTGTGC
GGCCGCCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCGCCTC
GCCTCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTAC
CAGGCCGGGGCCCGCAGGGCGCCGAGCGCGGCCTCAGCGCCATCCGCGAGCGCCTGGGGCCCTGGTGGAAACAG
GGCCGCGTGCGGGCCGCCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCAGGCCCTGGGGCGAG
CGGCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGGACCCGCGACCGCCTGGACGAGGTGAAGGAGCAGGTGGCG
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAG
AGCTGGTTTCGAGCCCCCTGGTGGAAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTG
GGCACCAGCGCCGCCCTGTGCCCAGCGACAATCAGTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACC
CCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCCTCCTGGGGTGGACCC
TAGTTTAAATAAAGATTACCAAGTTTCACGC

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FIGURE 708

MKVLWAALLVTFLAGCQAKVEQAVETEPEPELRQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVT
QELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEE
LRVRLASHLRKLRKRLRLDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERA
QAWGERLRARMEEMGSRTDRDLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWEPLVEDMQRQWAGLVEK
VQAAVGTSAAPVPSDNH

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FIGURE 709A

ATGGCTCACCTAAAGCGACTAGTAAAATTACACATTAAAAGACATTACCATAAAAAGTTCTGGAAGCTTGGTGCA
GTAATTTTTTTCTTTATAATAGTTTTGGTTTTAATGCAAAGAGAAGTAAGTGTTCATATTCCAAAGAGGAATCA
AGGATGGAAAGGAACATGAAAAACAAAAACAAGATGTTGGATTTAATGCTAGAAGCTGTAAACAATATTAAGGAT
GCCATGCCAAAAATGCAAATAGGAGCACCTGTCAGGCAAAACATTGATGCTGGTGAGAGACCTTGTTCGCAAGGA
TATTATACAGCAGCAGAATTGAAGCCTGTCCTTGACCGTCCACCTCAGGATTCAAATGCACCTGGTGCTTCTGGT
AAAGCATTCAAGACAACCAATTTAAGTGTGAAGAGCAAAAGGAAAAGGAACGTGGGGAAGCTAAACACTGCTTT
AATGCTTTTCGCAAGTGACAGGATTTCTTTGCACCGAGATCTTGGACCAGACACTCGACCTCCTGAATGTATTGAA
CAAAAATTTAAGCGCTGCCCTCCCCTGCCACCACCAGTGTCTATAATAGTTTTTCATAATGAAGCGTGGTCCACG
TTGCTTAGAACTGTCCACAGTGTGCTCTATTCTTCACCTGCAATACTGCTGAAGGAAATCATTGTTGGTGGATGAT
GCTAGTGTAGATGAGTACTTACATGATAAACTAGATGAATATGTAAAAACAATTTCTATAGTAAAAATAGTCAGA
CAAAGAGAAAGAAAAGGTCTGATCAGTCTCGGTTGCTAGGAGCAACAGTCGCAACAGCTGAAACGCTCACATTT
TTAGATGCTCACTGTGAGTGTCTTAIGGTTGGCTAGAACCCTCTGTTGGCCAGAATAGCTGAGAATAACACGGCT
GTCGTAAGTCCAGATATTGCATCCATAGATCTGAACACGTTTGAATTCAACAAACCTTCTCCTTATGGAAGTAAC
CATAACCGTGGAATTTTGACTGGAGTCTTTTCAATTTGGCTGGGAGTCGCTTCCTGATCATGAGAAGCAAAGAAGG
AAAGATGAAACCTACCCAATTTAAACACCCACTTTTGCAGGAGGACTTTTTTCCATATCAAAAGAATATTTTGAG
TATATTGGAAGCTATGATGAAGAAATGGAATCTGGGGAGGTGAAAATATAGAAATGTCTTTCAGAGTATGGCAA
TGTGGTGGGCAGTTGGAGATTATGCCTTGCTCTGTTGTTGGACATGTTTTTCGCAGCAAAAGCCCTCATAGCTTT
CCAAAAGGCACCTCAGGTGATTGCTAGAAACCAAGTTCGCCTTGCAAGTCTGGATGGATGAATACAAGGAAATA
TTTTATAGGAGAAATACAGATGCAGCAAAAATTGTTAAACAAAAAGCATTGTTGGTGTCTTTCAAAAAGATTGAA
ATAAAACACCGTCTTCGGTGTA AAAAATTTTACATGGTATCTGAACAACATTTATCCAGAGGTGTATGTGCCAGAC
CTTAATCCTGTTATATCTGGATACATTA AAAGCGTTGGTCAGCCTCTATGTCTGGATGTTGGAGAAAACAATCAA
GGAGGCAAACCATTAATTATGTATACATGTCTGACTTTGGGGGAAACCAGTACTTTGAATACTCTGCTCAACAT
GAAATTCGGCACAACATCCAGAAGGAATTATGTCTTCATGCTGCTCAAGGTCTCGTTCAGCTGAAGGCATGTACC
TACAAAGGTACACAAGACAGTTGTCACTGGAGAGCAGATATGGGAGATCCAGAAGGATCAACTTCTATACAATCCA
TTCTTAAAAATGTGCCTTTCAGCAAATGGAGAGCATCCAAGTTTAGTGTCTATGCAACCCATCAGATCCACTCCAA
AAATGGATACTTAGCCAAAATGAT**TAAG**TGTTCCCTTAAAATTAAGTTGAAAAGGAAATATTCTTTCTCATAAAA
CTGTGACTAGGCATACACTGTAGTTTTTGGAAATTATGCAAAAGCAGCTAAATGTAACCTATTCCAAGTGCATTT
TTCTTATTTATATCTTTATGTAGCACTACTACAGAAATCTGCAAGTTTTCTGTTTCAAAGCACAATAACTAGTAA
TACCAAAGACTATTTCAAAATGTCCAGATGTAGGGGAAGAGATGTTTACAGTATGATGAAAATAATTTTCCAAGT
AAAGTGATGTTTGTGTGTTTGTACACTTAGGGATATATATATATAGCTACATTCACACACTCACAATTTAAAAAT
ATTTCCCTAGTTTTTTGGGGGGATAGGAAGAAAGATTTGTTACTGTATTTTTTTAACTACATAAAAAATAGATCA
ATAAATGTCAGCATTGGCCTCTGTGTACAAACCAAGAGCTTTTACAGATCCAGAATTTATTAGTTTTAAATGCGAG
GTGAACTTTTTTTTGCGTTTGGTTTACTTGTCTGTCAAATGTTTCCCTTAAACATGAACTGAATAAGGAGAAGAG
TATTTTTTAACACTTAAATTTCTTGGCAAATTTTAAACATTTTTTTAGTCTGTAATACACTCCACTTGAAGCACTT
AAGTCTTCCTTAAATGACTTTTCTTAAGTAATGATACTGTGTGTTTTCCCAAAGCACTTTTAAAAAAATTTTTAT
AAATTACTATCTGTTGAAAAGGTGTCCTTTTCCCTTCTTCTAGTATTTTTTTTCTTACCAAATTCCTAATCTT
GAATGTTTGTGATATTAAATTTCAAATGCAGAATACTTGACTCATTTAAAGCTAAATTTTGTACTGATTCAATT
ATAATTGTAATGGATTTTTGACTTTGTAATGGATTCTTTTCATCAAAAAGCCTTATTATTTTTTATCTATGTGGA
AAACACAATAAAAAATCCTCAACACTATTGTAATCATTTGGTTAAGTGCTTATTCCTCTTTTGGGTAAAAATCTGT
AATTGATAATAGGTGGGGGAAAATGAATTTTGTATGCTGAATTTCTAAGCGCCTATTGTTTGTAAAACCATCAGA
TATTTCTTATGGCACA AAAAATGAGGAATAGCAAAATTCCTGTGTTCAATATTTAGAAAATTTTGTATTAATTC
TGATAAAGTTCCTTAAGCATCTGATAGAATGATGTTTTAAAAAAATTTGACGCTTGCTTAGGAGATTTACCACTT
TTTTTTTTTGTTTTTCGTCATTTTATATTTAGATCTCCTGTATTCTTGTTCCTGAAGTAAAATACGATCGGTTTC
ATATTTTAAATCTGGCAGAGCCTCAGCTGTACGAAAAGAGCATATACTGGTTATTGACCTATCTTCTCATTGT
TTGTTTGTAAAGTTTGAATTTGTATTA AAAAGCCTGCATTCTGAGCTGGACATGGTGGCTCAGCTTCTAATCCCAG
CACTTTGGTAGGCAAAGGTGGGAGGATCATTTGAGCTCAGGAGTTCCAGACCAGCCTGGGCAACATAGCAAAATC
TCATCTCTACAAAAGTAAAAATTA AAAAATGAAATTA AAAAATAAAATTACCTAGGTGTGGTGGCACGCATCTGT
AGTTCCAGCTATACAGGAAGGTGAGGCAGAAGCATTGCTTGAGCTTGGGAGATCGAGGCTACAGTGAGCTATGAT

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FIGURE 709B

TACACCACTGCACTTCAGTCTGTGTGACTGAGCAAGACTCTTTCAAAAAAAAAAAAAAGCCTACATTCTCCAGTT
GATTATTTCCAATAATGTGTATTATGTGCCTAATTTCTATCAGAAGTTGTATTAAGCCCGTTTTCACACTGCT
GTTAAAGACATACCTGAGACTGGGTAATTTATAAAGAAAAATAGGTTCAATGGACCCACAGGTCCGCGTGGCTGG
GGAAGCTTCACAATCATGGCGGAAGGTGAAAGCATGTCTTACGTGGAAG

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FIGURE 710

MAHLKRLVKLHIKRHYHKKFWKLGAVIFFFIIVLVLMQREVSVQYSKEESRMERNMKNKNKMLDLMLEAVNNIKD
AMPKMQIGAPVRQONIDAGERPCLQGYTAAELKPVLDRPPQDSNAPGASGKAFKTTNLSVEEQKEKERGEAKHCF
NAFASDRISLHRDLGPDTRPPECIEQKFKRCPLPTTSVIVFHNEAWSTLLRTVHSVLYSSPAILLKEIILVDD
ASVDEYLDLHDKLDEYVKQFSIVKIVRQRERKGLITARLLGATVATAETLTFLDAHCECFYGWLEPLLARIAENYTA
VVSPDIASIDLNTFEFNKPSPYGSNNHNRGNFDWSLSFGWESLPDHEKQRRKDETYPIKTPTFAGGLFSISKEYFE
YIGSYDEEMEIWGGENIEMSFRVWQCGGQLEIMPCSVVGHVFRSKSPHSFPKGTQVIARNQVRLAEVWMDEYKEI
FYRRNTDAKIVKQKAFGDLSKRFEIKHRLRCKNFTWYLNNIYPEVYVPDLNPVISGYIKSVGQPLCLDVGENNQ
GGKPLIMYTCHGLGGNQYFEYSAQHEIRHNIQKELCLHAAQGLVQLKACTYKGHKT VVTGEQIWEIQKDQLLYNP
FLKMCLSANGEHPSLVSCNPSDPLQKWILSQND